United States

Environmental Protection Agency

243280

Office of Pesticide Programs (7505C) Washington, DC 20460

3 W #

Notice of Supplemental Distribution of a Registered Pesticide Product

Instructions

After a registrant has obtained final registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationery, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product Distributor Company Number 524 - 475 내 d 72207 Note: Do not submit distributor product labels

"ame of Registered Product (basic product name accepted by EPA)

Distributor Product Name

Roundup Ultra

Roundup Ultra

Name and Address of Distributor (Type; include ZIP code)

Taylor & Stuckey, Inc. 10415 Stuckey Lane Trumann, AR. 72472

Read All Conditions Before Signing

- 1. The distributor product must have the same composition as the basic product.
- 2. The distributor product must be manufactured and packaged by the same person who manufactures and packages the registered basic product.
- 3. The labeling for the distributor product must bear the same claims as the basic product, provided, however, that specific claims may be deteted if by doing so, no other changes to the label are necessary.
- 4. The product must remain in the manufacturer's unbroken container.

Total market

- 5. The label must bear the EPA registration number of the basic product, followed by a hyphen and the distributor's company number.
- 6. Distributor product labels must bear the name and address of the distributor qualified by such terms as "packed for...", "distributed by..."; or "sold by..." to show that the name is not that of the manufacturer.
- 7. All conditions of the basic registration apply equally to distributor products. It is the responsibility of the basic registrant to see that all distributor labeling is kept in compliance with requirements placed on the basic product.

Distributor

We intend to market our product under the Distributor Product Name specified above, subject to the conditions specified on this Notice.

Signature and Title of Distributor

2/9/99

Date

Registrant

I agree that the distributor named above may distribute and sell the Distributor Product specified above, subject to the conditions specified on this Notice.

EPA Form 8570-5 (Rev. 8-94) Previous editions are obsolete.

White - FPA

"U.S, GPD: 1998-432-472/81004

Paperwork Reduction Act Notice

The annual respondent burden for the Notice of Supplemental Distribution of a Registered Pesticide Product is estimated to average 15 minutes per response, including time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information. Send comments regarding this burden, to Chief, Information Policy Branch, 2136, U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460; and to Paperwork Reduction Project (OMB No. 2070-0044), Office of Management and Budget, Washington, DC 20503, Marked "Attention Desk Officer for EPA."

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

FEC 15 1

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Mr. Stephen J. Wratten Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Mr. Wratten:

Subject: Roundup Ultra Herbicide (Use In Production of Medicinal Herbs)

EPA Registration No. 524-475

Your Application Dated January 26, 2000

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable. A stamped copy of labeling is enclosed for your records.

Sincerely,

Under K Celebra, 17.3

James A. Tompkins

Product Manager 25

Herbicide Branch

Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundua Un Property PTED this supplement.

ROUNDUP ULTRA® Herbicide by Monsanto

EPA Reg. No. 524-475

FE3 + 6 1900

Under the Federal Insecticide, Fundicide, and Rodentleide Act, as amended, for the pesticide registered under RPA Rog. No. 524-425

FOR USE IN THE FOLLOWING MEDICINAL HERBS: Burdock, Dandelion, Echinacea, Feverfew, Goldseal, Stinging Nettle, St. Johnswort, Valerian, Blue Vervain

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

® Roundup and Roundup Ultra are registered trademarks of Monsanto Company.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

USE RECOMMENDATIONS

For specific rates of application and instructions for control of various annual and perennial weeds, see the Annual and Perennial Weeds Rate Tables in the Roundup Ultra label booklet.

TYPES OF APPLICATIONS: Chemical fallow, preplant fallow beds, preplant,

preemergence, post directed hooded applications and postharvest.

Chemical fallow, Preplant fallow beds

USE INSTRUCTIONS: This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields.

Preplant, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting by direct seeding and prior to transplanting the crops listed above. Applications must be made prior to emergence of the crop.

PRECAUTIONS, RESTRICTIONS: Preplant applications must be made at least 3 days prior to transplanting. When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by a single 0.5 inch application of water either by natural rainfall or via a sprinkler system. EXTREME CARE MUST BE TAKEN TO ENSURE THAT THERE IS NO PART OF A SEED OR EMERGING SEEDLING CAPABLE OF BEING CONTACTED AND THAT THE SOIL IS TOTALLY COVERING THE SEED OR DEVELOPING SEEDLING AT APPLICATION. ENSURE THAT NO PART OF ANY SEED OR EMERGING SEEDLING IS CONTACTED BY HERBICIDE SOLUTION, SPRAY DRIFT OR MIST.

For preemergence applications prior to the emergence of established perennial crops do not apply within one week prior to emergence of any plant part.

Post directed hooded applications, Post-harvest

USE INSTRUCTIONS: Post directed hooded applications of this product may be made to mulched or unmulched row middles after crop establishment.

This product may be applied after final harvest to control weeds, suppress regrowth of annual crops or for renovation of biennial or perennial crop beds. Higher rates may be needed to control large weeds which were growing in the crop at the time of harvest.

PRECAUTIONS, RESTRICTIONS: Post directed applications may be made at a maximum of 1 quart per acre and a maximum of 1 application per growing season. Post directed and post-harvest applications must be made at least 14 days prior to planting the next crop. Do not harvest or feed treated vegetation.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT OR OTHER PARTS OF DESIRABLE PLANTS. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

Grower assumes all responsibility for crop losses from misapplication.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

© Молѕаліо Сотралу 2000

MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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EPA Perm 4570-15 (\$-75)

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Please read instructions on reverse before completing form United Sta		Registration	
Environmental Prote Washington, D	ection Agency	Amendme Other	1
Applic	cation for Pesticide - Sec	tion I	
1. Company/Product Number	2. EPA Product Me	-	3. Proposed Classification
524-475	Mr. James	Tompkins	None Restricted
4.Company/Product(Name) Roundup Ultra Herbicide	25		
5. Name and Address of Applicant <i>Unclude ZIP Codel</i> Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005	(b)(i), my product to:		te with FIFRA Section 3(c)(3) al in composition and labeling
Check if this is a new address	Product Name		
	Section - II		
Amendment - Explain below. Resubmission in response to Agency letter deted Notification - Explain below.	Agency le	ed labels in response to etter dated Application.	to .
Explanation: Use additional page(s) if necessary. (For	saction I and Section II.)		·············
Supplemental Babel: Use in t	he production of Medici	inal Herbs	
	Section - III		
Material This Product Will Be Packaged in:		· · · · · · · · · · · · · · · · · · ·	
Child-Resistant Packaging Yes No * Certification must be submitted Unit Packaging Unit Packaging Unit Packaging Unit Packaging wgt.	Water Soluble Peckeging Yes No Per If "Yes" No. pe ainer Package wgt contain		Container Metel Plestic Glass Paper Other (Specify)
3. Location of Net Contents Information 4. Size	o(s) Retail Container	5. Location of Labe On Lebet On Lebetin	al Directions
6. Manner in Which Label is Affixed to Product.	Lithograph Oti Paper glued Stenciled	her	
	Section - IV		
1. Contact Point (Complete items directly below for iden	tification of individual to be contacte	id, if necessary, to pro	cess this application.)
Dr. Russell P. Schneider	Tite Agricultural R Director	egulation	Telephone No. (Include Area Code) (202) 783-2460
Ce I cartify that the statements I have made on this fo I acknowledge that any knowingly false or mislead both under applicable law.			
2. Signeture	3. Tide Manager, Reg	istrations	
4. Typed Name Stephen J. Wratten, Ph.	D. January 2	6, 2000	

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send-comflents regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4):
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this posticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant: The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another perty, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- Expedited Review FIFRA section 3 (c) 3 (8) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pasticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final panted lebeling, for reregistration and for any other action that partains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, past or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Chack the appropriate block if your product will be packaged in the indicated packaging types.
- * Indicate the size of the individual packets and number per retail container.
- 2: Typu of Retail Contriner Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Eire(r) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "tre-too," reregistration, etc.

- 1-5. Salf-explanatory.
- 6. EPA Use Only.

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Monsanto Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005

Tel: (202) 783-2460 Fax: (202) 783-2468

January 26, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (AMEND)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No. 524-475)

Supplemental Label: Use in the production of Medicinal Herbs

Dear Mr. Tompkins:

The Interregional Research Project No. 4 (IR-4) has contacted Monsanto with a request for the use of Roundup Ultra herbicide to control weeds during the production of certain medicinal herbs. In response, working together with IR-4, the attached supplemental label has been developed. IR-4 have discussed medicinal herb crops with the EPA OPP Minor Use Branch, and have been informed that these crops are considered a non-food use, so that no tolerances are required. The proposed use patterns are not expected to result in significant exposure of the crops to the herbicide, since such exposure would kill the crop, so any residues remaining at harvest are expected to be very minor. In light of these considerations, Monsanto requests approval of the proposed label.

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider (202-383-2866) or by direct phone (314-694-1582), fax (314-694-4028), or electronic mail at stephen.j.wratten@monsanto.com.

Sincerely,

Stephen J. Wratten

Manager, Registrations

cc: R. P. Schneider M. Braverman, IR-4 Ultra Medicinal Herbs.doc



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

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OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Mr. Stephen J. Wratten Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Mr. Wratten:

Subject: Roundup Ultra Herbicide (Tank-Mix with MON 46598) EPA Registration No. 524-475 Your Application Dated January 11, 2000

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

ROUNDUP ULTRA®
Herbicide by Monsanto

EPA Reg. No. 524-475

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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under RPA Reg. No. 524-435

ROUNDUP ULTRA ® Tank-Mixed with MON 46598 for improved symptoms in pre-plant applications.

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

® Roundup Ultra is a registered trademark of Monsanto Company.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION", "MIXING", "ANNUAL WEED RATE TABLE", and "PERENNIAL WEED RATE TABLE" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

RECOMMENDATIONS

This tank-mixture will significantly enhance the speed of symptomology appearance on certain weeds when applied as a pre-plant treatment prior to corn, soybeans or wheat. This mixture may be applied prior to planting or emergence of labeled crops. This mixture will not provide residual control of weeds that are un-emerged at the time of treatment.

Combine Roundup Ultra (32 fluid ounces of product per acre) and MON-46598 (0.144 ounces per acre) in the spray tank in 10 - 20 gallons of water per acre. For best results, make

applications to actively growing weeds. Ammonium Sulfate at 1-2% by weight or 8.5 to 17 pounds per 100 gallons of water may be added. The addition of 2,4-D or Banvel is not recommended.

SPECIFIC MIXING RECOMMENDATIONS

Option 1

- Fill the spray tank one-half full with water and start the agitation.
 Add MON-46598 at 0.144 oz /acre and mix thoroughly.
- 3. If desired add Ammonium Sulfate at 1-2% by weight or 8-17 lbs/100 gallons of spray.
- 4. Add Roundup Ultra at 32 oz/acre and finish filling the spray tank with water.

Option 2

- 1. Fill the spray tank one-half full with water and start the agitation.
- 2. If desired add Ammonium Sulfate at 1-2% by weight or 8-17 lbs/100 gallons of spray.
- 3. Add Roundup Ultra at 32 oz/acre.
- 4. Prepare a slurry of MON-46598 with water and add to the spray tank.

Read and follow the MON-46598 label for additional application instructions and precautions.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

© Monsanto Company 2000

MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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Please read instructions	on reverse before completing form.
	United States

OPP	Identifier	Number

	Registration
\times	Amendment
,,,,	Other

Form Approved. OMB No. 2070-0060

\$EPA	Environmental Protecti Washington, DC 20	-	Amendment Other	267981
	Applicati	on for Pesticide - Se	ction I	
1. Company/Product Num	524-475	2. EPA Product Me Mr. James	Tompkins	oposed Classification
4. Company/Product (Nam Roundup	ne) Jitra Herbicide	PM# 25		None Restricted
Monsante Cor	reet, N.W., Suite 660	(b)(i), my produc to:	eview. In accordance with t is similar or identical in co ストトスクマン	
Check if t	his is a new address	Product Name		
		Section - II	-	
Notification - Expl	sponse to Agency letter dated	Agency is "Me Too" Other - E	ted labels in response to etter dated Application.	
Submission	of supplemental tank mix		98	
		Section - III		
1. Material This Product 1				
Child-Resistant Packaging Yes* No * Certification must	Yes No No. psi	Water Soluble Packeging Yes No No. pe		
be submitted	Unit Packaging wgt. container	Package wgt contail	ner Cther	(Specify)
3. Location of Net Conter	ts Information 4. Size(s) R	etail Container	5. Location of Label Direct On Lebel On Labeling acco	ions mpanying product
6. Manner in Which Label		r glued ciled	her	
···		Section - IV		····
	te items directly below for identificat	· · · · · · · · · · · · · · · · · · ·		is application.)
Dr. Russell	P. Schneider	Пи₀ Agricultural R Director		ne No. (Include Area Code) 783-2460
	Certific staments I have made on this form an any knowingly false or misleading state law.	d all attachments thereto are t		6. Pate Application Received (Stamped)
2. Signature	Mkats	3. ກັນຈ Manager, Re	gistrations	
4. Typed Name Ste	ephen J. Wratten, Ph.D.	5. Date January 11	, 2000	15

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completes regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden; to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). Iff not exempted by 40 CFR 152.81 (b) (4));
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- 5. Three copies of any data submitted;
- 5. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION ! - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agant residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Raview FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed lebeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purposets) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicably amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.

 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Jan Directions Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, atc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

16



MONSANTO COMPANY 600 13th Street, N.W. SUITE 660 WASHINGTON, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2468

January 11, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (AMEND)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Supplemental Tank Mix Label with MON 46598

Dear Mr. Tompkins:

Enclosed for Agency review and approval are five (5) copies of a proposed supplemental label describing Directions for Use for applying a tank mixture of Roundup Ultra Herbicide combined with MON 46598. This label is to be used in the 2000 season as part of a Test Market to evaluate growers' interest in a mixture product combining the properties of Roundup Ultra Herbicide and AIM® Herbicide (EPA Reg. No. 279-3194). MON 46598 is a code number used as a temporary brand name in place of "AIM", which is a product that is registered and produced by FMC Corporation under EPA Reg. No. 279-3194. FMC have notified the appropriate EPA Product Manager of the "MON 46598" alternate name on that EPA Reg. No. FMC will produce appropriate labeling for their MON 46598 herbicide product. The label requested herein will be used as needed to provide instructions to growers when they evaluate the new product concept by mixing and applying the products together as a tank mixture. Preemergent application of both products at the recommended rates and timings are already allowed on their respective labeling.

Mr. Tompkins Page 2 11-Jan-00

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider (202-383-2866) or by direct phone (314-694-1582), fax (314-694-4028), or electronic mail at stephen.j.wratten@monsanto.com.

Sincerely,

Stephen J. Wratten

Manager, Registrations

cc: R. P. Schneider

J. Sandbrink



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

FEB 15 200g

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Mr. Stephen J. Wratten Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Mr. Wratten:

Subject: Roundup Ultra Herbicide (Tank-Mix with Resource For Corn or Soybeans)
EPA Registration No. 524-475
Your Application Dated January 11, 2000

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable. A stamped copy of labeling is enclosed for your records.

Sincerely,

Judice (Create Janes A. Tompkins 3 Product Manager 25 Herbicide Branch Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplementation ACCEP

ROUNDUP ULTRA®
Herbicide by Monsanto

EPA Reg. No. 524-475

FFB . 5

Under the Federal Insectedia, Fungicide, and Rodentiolde Ad, as smended, for the pesticide registered under RPA Reg. No. 524-475

ROUNDUP ULTRA® Tank-Mixed with RESOURCE® for improved symptoms in pre-plant applications in Corn or Soybeans.

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

- ® Roundup Ultra is a registered trademark of Monsanto Company.
- ® Resource is a registered trademark of Valent USA Corporation

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION", "MIXING", "ANNUAL WEED RATE TABLE", and "PERENNIAL WEED RATE TABLE" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

RECOMMENDATIONS

This tank-mixture will significantly enhance the speed of symptomology appearance on certain weeds when applied as a pre-plant treatment prior to corn or soybeans. This mixture may be applied prior to planting or emergence of labeled crops. This mixture will not provide residual control of weeds that are un-emerged at the time of treatment.

Combine Roundup Ultra (32 fluid ounces of product per acre) and Resource (2.08 fluid ounces per acre) in the spray tank in 10 - 20 gallons of water per acre. For best results, make applications to actively growing weeds. Ammonium Sulfate at 1-2% by weight or 8.5 to 17 pounds per 100 gallons of water may be added. The addition of 2,4-D or Banvel is not recommended.

SPECIFIC MIXING RECOMMENDATIONS

Option 1

- 1. Fill the spray tank one-half full with water and start the agitation.
- 2. Add Resource at 2.08 fluid oz /acre and mix thoroughly.
- 3. If desired add Ammonium Sulfate at 1-2% by weight or 8-17 lbs/100 gallons of spray.
- 4. Add Roundup Ultra at 32 fluid oz/acre and finish filling the spray tank with water.

Option 2

- 1. Fill the spray tank one-half full with water and start the agitation.
- 2. If desired add Ammonium Sulfate at 1-2% by weight or 8-17 lbs/100 gallons of spray.
- 3. Add Roundup Ultra at 32 fluid oz/acre.
- 4. Add Resource at 2.08 fluid oz/acre to the spray tank.

Read and follow the Resource label for additional application instructions and precautions.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

© Monsanto Company 2000

MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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EFA Form 4570-13 (\$-75)

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Messe read instructions on reverse before completing form.	Form Approved. OMB No. 207	A 0080
United States Environmental Protection Age Washington, DC 20460	Registrati	OPP Identifier Number
Application for	Pesticide - Section I	
1. Company/Product Number 524-475	2. EPA Product Manager Mr. James Tompkins	3. Proposed Classification
4. Company/Product (Name) Roundup Ultra Herbicide	РМ# 25	None Restricted
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005	6. Expedited Review. In accordance (b)(i), my product is similar or identicato: EPA Reg. No. 2/1/200	al in composition and labeling
Check if this is a new address	Product Name	
SecSec_	ction - II	
Amendment - Explain below. Resubmission in response to Agency latter dated Notification - Explain below. Explanation: Use additional page(s) if necessary. (For section I and S Submission of supplemental tank mix labe		
Sec	tion - III	
1. Material This Product Will Be Packaged In:		
Yes Yes No No No No Per II Yes No Per II Yes	No	ontainer Metal Plastic Glass Paper Other (Specify)
3. Location of Net Contents Information 4. Size(s) Retail Cont. Label Container	On Label	1 Directions
6. Manner in Which Label is Affixed to Product Lithograph Peper glued Stendied	Other	
Sec	tion - IV	
1. Contact Point (Complete items directly below for identification of indi	vidual to be contacted, if necessary, to pro	cess this application.)
	9	Felephone No. (Include Area Code) (202) 783-2460
Certification		8. Dare Application

Stephen J. Wratten, Ph.D.

EPA Form 8570-1 (Rev. 8-94) Previous editions ere absolute.

both under applicable law.

2. Signature

3. Title

Manager, Registrations

5. Date January 11, 2000

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or

Recuived

(Stamped)

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comfletts regarding the burden estimate or any other espect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Lebeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 1 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

<u>SECTION 1</u> - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brend name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 5. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for resegistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging. Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Sizels) of Retail Container Specify the net contents of all retail containers for your product,
- 5. Location of Use Disactions Indicate the location of the use directions for your product.
- 6. Manner in which lebal is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Context Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-roo," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

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See July Private of 1000s are obsolete.





MONSANTO COMPANY 600 13TH STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2460

January 11, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (AMEND)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Supplemental Tank Mix Label with Resource® Herbicide

Dear Mr. Tompkins:

Enclosed for Agency review and approval are five (5) copies of a proposed supplemental label describing Directions for Use for applying a tank mixture of Roundup Ultra Herbicide combined with Resource Herbicide (EPA Reg. No. 59639-82). Preemergent application of both products at the recommended rates and timings are already allowed on their respective labeling in corn and soybeans as recommended herein.

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider (202-383-2866) or by direct phone (314-694-1582), fax (314-694-4028), or electronic mail at stephen.j.wratten@monsanto.com.

Sincerely,

Stephen J. Wratten Manager, Registrations

cc:

R. P. Schneider

J. Sandbrink

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Part Meren



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

HES 16 JAN

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Annette M. Kirk Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Ms. Kirk:

Subject: Roundup Ultra Herbicide (Seed Production of Roundup Ready Alfalfa) EPA Registration No. 524-475 Your Application Dated January 5, 2000

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA ® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet to Roundup this supplement.

ROUNDUP ULTRA® Herbicide by Monsanto

EPA Reg. No. 524-475

FEB 1 6 2000

Under the Pederal Insecticide, Pungloide, and Rodentloide Act, as amended, for the pesticide Pedistered under RPA Reg. 80 524 475

USE ONLY FOR SEED PRODUCTION OF ALFALFA WITH THE ROUNDUP READY® GENE

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

® Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, OTHER THAN ALFALFA WITH THE ROUNDUP READY GENE, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

NOTE: THIS PRODUCT MAY BE USED FOR CONTROL OF NON-GLYPHOSATE TOLERANT ALFALFA IN PRODUCTION FIELDS OF ALFALFA CONTAINING THE ROUNDUP READY GENE. SEVERE INJURY OR DEATH OF ALFALFA WILL RESULT IF ALFALFA VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

USE RECOMMENDATIONS

This product will control non-glyphosate tolerant alfalfa in seed production fields of a file containing the Roundup Ready gene. Apply up to 64 ounces of this product in to 20 gallons of spray solution per acre as a broadcast spray. Subsequent applications of up to 64 ounces per acre each may be applied, if needed to control non-glyphosate tolerant alfalfa plants.

DO NOT EXCEED A MAXIMUM RATE OF 8 QUARTS OF THIS PRODUCT PER ACRE PER SEASON.

Application timing -- This product can be applied to Roundup Ready alfalfa from emergence to harvest.

Treated alfalfa or the resulting seed may not be used for food or feed. Do not feed or graze treated alfalfa. Do not process treated alfalfa or resulting seed for food or feed.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

© Monsanto Company 1999

MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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Please read instructions on reverse before completing form.	Form Apor	oved. OMB No. 207	0-0060	\mathcal{B}	
United States Environmental Protection Washington, DC 2046	n Agency	Registrat × Amendm Other	ion	OPP Identifier Number	
Application for Pesticide - Section I					
1. Company/Product Number 524-475	I	2. EPA Product Manager 3. Proposed Classification Mr. James Tompkins			
4. Company/Product (Name) Roundup Ultra Herbicide	РМ# 2	5		None Restricted	
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address	(b)(i), my product to: EPA Reg. No	is similar or identic	al in cor	FIFRA Section 3(c)(3) nposition and labeling	
Section - II					
Amendment - Explain below. Resubmission in response to Agency letter dated					
Section - III					
1. Material This Product Will Se Packaged In:					
Child-Resistant Packaging Yes* No * Certification must be submitted Unit Packaging Yes No. per Container	Water Soluble Packaging Yes No No No. per Package wgt contain		Metal Plastic Glass Paper Other (S	Specify)	
3. Location of Net Contents Information 4. Size(s) Return Label Container	ail Container	5 Location of Label Directions On Label On Labeling accompanying product			
6. Manner in Which Label is Affixed to Product Lithograph Other Paper glued Stenciled					
Section - IV					
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Dr. Russell P. Schneider	ingi teareatar negaraaran		•	783-2460	
Certification certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. Stamped Continue Continu					
anette M. Link	Registration Manager				
4 Typed Name Annette M. Kirk	5. Date January 5, 2000			1 . 54	

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, cearching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [if not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Examption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where epplicable,

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Black A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION | - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- S. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration metters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (8) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

<u>SECTION III</u> (Packaging and Container (information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.

 Indicate the size of the individual packets and number per retail container.
- 2. Type of Ratall Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retuil Container Specify, the net contents of all retail containers for your product.
- 5. Location of Use Directions indicate the location of the use directions for your product.
- 6. Manner in which lots! is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only

31





MONSANTO COMPANY 600 13th Street, N.W. SUITE 660 WASHINGTON, D.C. 20005 Tel.: (202) 783-2460

Fax: (202) 783-2468

January 5, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (AMEND)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

·Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide; EPA Reg. No. 524-475

Supplemental Label for Seed Production of Roundup Ready® Alfalfa

Dear Mr. Tompkins:

Enclosed for Agency review and approval are five (5) copies of a supplemental label for the use of Roundup Ultra Herbicide in the production of Roundup Ready® alfalfa seed. This use is needed as a quality control to ensure that Roundup Ready alfalfa seed will be free of any non-glyphosate-tolerant alfalfa seeds. This label will only be distributed through our seed company partner, Forage Genetics, with whom Monsanto is working closely on the development of this technology. This use of this proposed label would begin in 2000.

We estimate that Roundup Ready alfalfa will be planted on approximately 25 acres in the year 2000, 55 acres in 2001 and perhaps up to 80 acres in 2002. Current plans call for these acres to be in the following states: California, Idaho, Indiana, Iowa, Washington and Wisconsin.

Through our agreement, Monsanto and Forage Genetics will have complete control over the plant material and the seed at all times. Thus none of the plant material or seed will enter the U.S. food or feed supply. All acres of Roundup Ready alfalfa will be planted under permits granted through USDA APHIS and will be maintained according to USDA Performance Standards and requirements for isolation and security, including separation from other alfalfa stands by weed-free borders that do not allow cross pollination.

As additional support for this label, glyphosate tolerances are currently in established at 75 ppm for alfalfa forage and 200 ppm for alfalfa hay. These tolerances support the currently approved preharvest alfalfa use of this, and other Roundup brand products, at a rate of 1.0 lb./acre of glyphosate a.i., equivalent to 1 quart of Roundup Ultra Herbicide. Our preliminary research has shown that one possible use-pattern for Roundup Ready alfalfa would be 1.0 quart/acre of

Roundup Ready Alfalfa Seed Production Page - 2 -

Roundup Ultra at a much early timing in the growth of the alfalfa (i.e. 5-6 weeks prior to a any cutting or harvest of forage, hay or seed). Thus, in the rare instance where plant material or seed would inadvertently enter the channels of trade, residues in the feed commodities are expected to be within existing tolerances and any residues present in harvested seed are expected to be low.

In summary, the development of this new technology represents a significant investment for Monsanto and Forage Genetics. To support the approval of this new use pattern, we expect to begin a full residue study in 2001, and to file an application with the EPA some time in 2002. Until such time as this use is approved, the enclosed supplemental label would allow the early over-the-top applications to Roundup Ready alfalfa to ensure that any non-glyphosate-tolerant plants are destroyed prior to seed formation. No Roundup Ready alfalfa will enter the U.S. feed supply and no Roundup Ready alfalfa seed will enter the U.S. market before the commercial use label is available.

Similar labels were previously approved for use of Roundup Herbicide (524-445) for Roundup Ready soybean and cotton seed in 1994, for the use of Roundup Ultra Herbicide for Roundup Ready canola and sugar beet seed in 1997, and most recently for Roundup Ready rice and wheat in 1999. Monsanto therefore requests that the Agency approve and stamp the enclosed label.

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-8890.

Sincerely,

Annette M. Kirk Registration Manager

annetto M. Kirk

cc:

R. P. Schneider C. Reyes



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Annette M. Kirk Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Ms. Kirk:

Subject: Roundup Ultra Herbicide (Seed Production of Roundup Ready Lettuce) EPA Registration No. 524-475 Your Application Dated December 16, 1999

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA ® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for counding Hitties this supplement.

ROUNDUP ULTRA®

Herbicide by Monsanto

EPA Reg. No. 524-475

FEB 1 6 2000

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the posticide registered under BPA Rag. No 524-475

USE ONLY FOR SEED PRODUCTION OF LETTUCE WITH THE ROUNDUP READY® GENE

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

® Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, OTHER THAN LETTUCE WITH THE ROUNDUP READY GENE, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

NOTE: THIS PRODUCT MAY BE USED FOR CONTROL OF NON-GLYPHOSATE TOLERANT LETTUCE IN PRODUCTION FIELDS OF LETTUCE CONTAINING THE ROUNDUP READY GENE. SEVERE INJURY OR DEATH OF LETTUCE WILL RESULT IF LETTUCE VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

USE RECOMMENDATIONS

This product will control non-glyphosate tolerant lettuce in seed production fields of lettuce containing the Roundup Ready gene. Apply up to 64 ounces of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. A second application up to 64 ounces per acre may be applied, if needed to control non-glyphosate tolerant lettuce plants.

DO NOT EXCEED A MAXIMUM RATE OF 4 QUARTS OF THIS PRODUCT PER ACRE PER SEASON.

Application timing -- This product can be applied to Roundup Ready lettuce from emergence to harvest.

Treated lettuce may not be used for food or feed. Do not feed or graze treated lettuce. Do not process treated lettuce for food or feed.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

@ Monsanto Company 1999

MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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EPA Form 4470-13 (3-75)

Hease rend instructions on reverse before completing form.	Form Approved. OMB No. 2070-00	60		
United States Environmental Protecti Washington, DC 20	Registration ion Agency x Amendment	OPP Identifier Number		
Applicati	ion for Pesticide - Section I			
1. Company/Product Number 524-475	2. EPA Product Manager Mr. James Tompkins	Proposed Classification		
4. Company/Product (Name) Roundup Ultra Herbicide	PM# 25	X None Restricted		
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 18th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address	6. Expedited Review. In accordance w (b)(i), my product is similar or identical in to: EPA Reg. No. / 141220つ Product Name			
	Section - II			
Amendment - Explain below. Resubmission in response to Agency letter dated				
	Section - III			
Material This Product Will Be Packaged In:				
Child-Resistant Packaging Yes* No No * Certification must be submitted Unit Packaging Yes No. per Unit Packaging wgt.	If "Yes" No. per Per	tel stic se		
3. Location of Net Contents Information 4. Size(s)	Retail Container 5. Location of Label Di	ections		
6. Manner in Which Label is Affixed to Product Lith	nograph per gived inciled			
	Section - IV			
1. Contact Point (Complete items directly below for identification)	·	s this explication.)		
Name Dr. Russell P. Schneider Title Agricultural Regulation Telephone No. (Include Area Code) Director (202) 783-2460				
I certify that the statements I have made on this form a	ication and all attachments thereto ere true, accurate and complet statement may be punishable by fine or imprisonment ur	6. Data Application Faceived (Stamped)		
2. Signature Ametto M. Kirk.	3. Tiue Registration Manager			
4. Typed Name Annette M. Kirk	5. Date December 16, 1999	<i>∃</i> 3 <i>\(b\)</i>		

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4 Five copies of draft labeling:
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a
 basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that parteins to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions;" Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- 2. Type of Retall Container Indicate type of container in which product will be marketed.
- 3. Location of Nat Contents Indicate the location of the net contents information for your product.
- Size(a) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which lauel is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.a., new products registration, resubmission, "me-tou," reregistration, etc.

1-5. Self-explanatory.

- 400-100-1

6. EPA Use Only.

34



MONSANTO COMPANY 600 13th Street, N.W. SUITE 660 WASHINGTON, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2468

December 16, 1999

Hand Delivered

Office of Pesticide Programs
Document Processing Center (AMEND)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide; EPA Reg. No. 524-475

Supplemental Label for Seed Production of Roundup Ready® Lettuce

Dear Mr. Tompkins:

Enclosed for Agency review and approval are five (5) copies of a supplemental label for the use of Roundup Ultra Herbicide in the production of Roundup Ready® lettuce seed. This use is needed as a quality control to ensure that Roundup Ready lettuce seed will be free of any non-glyphosate-tolerant lettuce seeds. This label will only be distributed through our seed company partner, Seminis Vegetable Seeds, in California, with whom Monsanto is working closely on the development of this technology. This use of this proposed label would begin in 2000. We estimate that Roundup Ready lettuce will be planted on approximately 30 acres in the year 2000. 60 acres in 2001 and a maximum of 100 acres in 2002. Current plans call for these acres to be mainly in California and Arizona, with the possibility of smaller numbers of acres in the following states: Colorado, Florida, Georgia, Michigan, New Jersey and Texas.

Through our agreement, Monsanto and Seminis will have complete control over the plant material and the seed at all times. Thus none of the plant material or seed will enter the U.S. food supply. All acres of Roundup Ready lettuce will be planted under permits granted through USDA APHIS and will be maintained according to USDA Performance Standards and requirements for isolation and security, including separation from other lettuce by weed-free borders that do not allow cross pollination. All harvested seed will be delivered to Seminis and all remaining plant material will be destroyed by plowing under.

In summary, the development of this new technology represents a significant investment for Monsanto and Seminis. Currently, a full residue study to support this use is being conducted through the IR-4 Program. IR-4 anticipate filing an application with the EPA some time in late 2000 or early 2001. Until such time as this use is approved, the enclosed supplemental label

Roundup Ready lettuce Seed Production Page - 2 -

would allow the over-the-top use in Roundup Ready lettuce to ensure that any non-glyphosate-tolerant volunteers are destroyed prior to seed formation. No Roundup Ready lettuce will enter the U.S. food supply and no Roundup Ready lettuce seed will enter the U.S. market before the commercial use label is available.

Similar labels were previously approved for use of Roundup Herbicide (524-445) for Roundup Ready soybean and cotton seed in 1994, for the use of Roundup Ultra Herbicide for Roundup Ready canola and sugar beet seed in 1997, and most recently for Roundup Ready rice and wheat in 1999. Monsanto therefore requests that the Agency approve and stamp the enclosed label.

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-8890.

Sincerely,

Annette M. Kirk Registration Manager

AnnittoM. Lucy

cc:

R. P. Schneider

C. Reyes



February 10, 2000

MONSANTO COMPANY 600 13TH STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005

Tel: (202) 783-2460 Fax: (202) 783-2468

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Post emergence applications to corn with the Roundup Ready Gene

For use in California

Dear Mr. Tompkins:

Monsanto herein submits three (3) copies of the final printed supplemental label (Print Plate No. 21137Y1-77) for Roundup Ultra Herbicide for post emergence applications to corn with the Roundup Ready gene. This version of the label is identical the final printed version that was submitted to the Agency on July 16, 1999 (Print Plate No. 21137X5-8), based on the Agency approval of July 13, 1999, with the following exceptions:

- at the request of the state of California, we have add back in the corn forage grazing/feeding restriction
 that had been on the previous version of this label Approved by the Agency on August 18, 1998.
- we have added in the statement, "For Use In California".
- we have included an expiration date of December 31, 2001

This version of the label will be used in California only, until such time as the pending tolerance petition (PP# 8F4973) for glyphosate in com forage is finalized. If you have any questions regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely.

Debra Hinton

Registration Specialist

Debu Heaton

cc: R. P. Schneider

Please read instructions on re	verse before completing form.		Form A	Approved.	OMB No. 2070-	0080	
C.EDA	United States				Registratio		OPP Identifier Number
\$EPA	Environmental Protection Washington, DC 204	_	icy	X	Amendmer Other	nt	268139
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			esticide - S		<u> </u>	<u> </u>	
Company/Product Number	524-475		2. EPA Product: Mr. Jan		pkins	,	posed Classification
4. Company/Product (Nama) Roundup Ultra Herbicide			PM#	25			None Restricted
5. Name and Address of App Monsanto Compar 600 13th Street Washington, DC		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No.					
Check if this	is a new addrass		Product Nan	ne			
· · · · · · · · · · · · · · · · · · ·		Sect	ion - II				
Amendment - Explain	halow		X Final p	rinted lebel	ls in response to		
	onse to Agency letter dated		Agency	y letter dat oo" Applica	ed	Jul	v 13, 1999
Notification - Explain t				Explain be			
Nouncagon - Explain t			Other-	- cxpiain or			
Explanation: Use additions	al pagets) if necessary. (For section	n I and Sec	tion II.)				
			•				
		Secti	on - III				
1. Material This Product Will	Be Packaged in:						
Child-Resistant Packaging	Unit Packaging	Water S	Soluble Packagin	Q	2. Type of Cor	ntainer	
Yas.	Yes	! ├ ──┤	Yes		_ 	Astel Tastic	•
No No	No No	<u> </u>	No .			lese	
Certification must be submitted	If "Yes" No. per Unit Peckaging wgt. container	H "Yes" Package		per teiner	·	aper Sther (S	pacify)
3. Location of Nat Contents I	nformation 4. Size(s) Re	tail Contain	er l	5. Lo	cation of Label (Directio	ons
Label Co	pntainer				On Labeling	accom	panying product
6. Manner in Which Label is	Paper L	glued		Other			
Section - IV							
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)							
Dr. Russell P. Schneider Title Agricultural Regulation Director Tolephone No. (Include Area Code) (202) 783-2460							
i certify that the stater i acknowledge that any both under applicable i					ete.	8 Date Application Received (Stamped)	
2. Signature	3. Tiបle Reg	istration	Special	list			
4. Typed Name Debra	a Hinton	5. Date	February	10, 20	000		1 42
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PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gethering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Date (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)]:
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 5. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections i, ill, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, ill, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION ! - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and eddress shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of enother party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to emend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency latter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that partains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable emendments.

- 1. Type 3: Packaging Chack the appropriate block if your product will be packaged in the indicated packaging types.
- 2. Type of Retall Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product,
- 4. Size(s) of Retail Cuntainer Specify the net contents of all retail containers for your product,
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

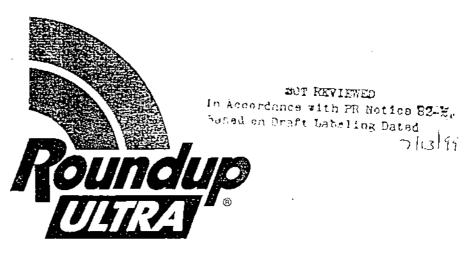
SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "m>too," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only,

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide, container labels and this supplement.



EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready⁵ are registered trademarks of Monsanto Company.

FOR POSTEMERGENCE APPLICATIONS TO CORN WITH THE ROUNDUP READY® GENE For use in California

Keep out of reach of children.

CAUTION!

In case of emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application,

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY CROPS) DESIRABLE PLANTS AND TREES, OTHER THAN CORN WITH THE ROUNDUP READY GENE, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

GENERAL INFORMATION

MONSANTO COMPANY RECOMMENDS USE OF THIS PRODUCT ONLY ON CORN HYBRIDS DESIGNATED AS CONTAINING THE ROUNDUP READY GENE.

- Applying this product to com hybrids which are not designated as Roundup Ready will result in severe crop injury and yield loss.
- The Roundup Ready designation indicates that the corn contains a patented gene which provides tolerance to this herbicide. Information

on Roundup Ready corn may be obtained from your seed supplier or Monsanto representative.

Application Instructions

This product may be applied postemergence to Roundup Ready com from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches, whichever comes first. Single in-crop applications of this product are not to exceed 1 quart per acre. Sequential in-crop applications of this product from emergence through the V8 stage or 30 inches must not exceed 2 quarts per acre per growing season.

Maximum Yearly Rates Allowed

Preplant: Maximum amount of this product which can be applied prior to crop emergence is 5 quants per acre.

In-crop: Maximum combined total of multiple in-crop applications from emergence through the V8 stage or 30 inches is 2 quarts per acre

Preharvest: Maximum amount of this product that can be applied after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days before harvest is 1 quart per acre.

Cropping Season: Combined total per year for all applications may not exceed 8 quarts per acre.

When applied as directed, this product controls labeled annual grass and broadleaf weeds in Roundup Ready corn, Many perennial grasses

and broadleaf weeds will be controlled or suppressed with one or more applications of this product. Applications should be made to actively growing weeds before they reach the maximum size fisted in the Annual and Perennial Weeds Rate Tables of the label booklet for Roundup Ultra herbicide. Refer to the "MIXING" section of the label booklet for proper use instructions.

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product under hard water conditions, drought conditions or when tank mixed with Bullet[®], Micro-Tech[®] or Partner[®] herbicides. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion. The addition of other additives, including fertilizers and micro-nutrients are not recommended with this product since this may result in increased potential for crop injury.

Allow a minimum of 50 days between application of this product and harvest of corn forage and 7 days between application and harvest of corn grain. Allow a minimum of 10 days between in-crop applications of this product. Do not graze, harvest or feed corn forage or silage following sequential in-crop applications of this product on Roundup Ready corn. There are no rotational crop restrictions following applications of this product.

"TTENTION: AVOID DRIFT, EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE.

THOROUGHLY CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL CONTAMINATION FROM OTHER HERBI-CIDES PRIOR TO MIXING AND APPLYING THIS PRODUCT.

For ground applications: Use the recommended rates of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. Carefully select correct nozzles and spray pressure to avoid spraying a fine mist. Check for even distribution of spray droplets.

For aerial applications: Use the recommended rates of this product in 3 to 15 gallons of spray solution per acre. Do not exceed 1 quart per acre. See "WEEDS CONTROLLED" section on this label. AVOID DRIFT - DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Weed Control Recommendations

Apply 24 to 32 fluid ounces of Roundup Ultra herbicide per acre for control of labeted grasses and broadleaf weeds in conventional and no-till corn production systems. Refer to the tabel booktet for Roundup Ultra herbicide for rate recommendations for specific annual weeds. Roundup Ultra herbicide applied at up to 1 quart per acre will control or suppress the growth of perennial weeds such as: bermudagrass, Canada thistie, common milkweed, field bindweed, hemp dogbane, horsenettle, nutsedge, quackgrass, thizome johnsongrass, redvine, trumpetcreeper, swamp smartweed, and wirestem muhly. For additional information on perennial weeds, see the "PERENNIAL WEED RATE TABLE" of the label booklet for Roundup Ultra herbicide.

Preemergence followed by postemergence weed control program: This product may be applied postemergence in-crop following any labeled preemergence herbicide application. The post application of

this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop. A single incrop application of this product at the recommended rate will provide control of emerged weeds listed on the label. This product may be applied posternergence to Roundup Ready com from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches (free standing), whichever comes first.

Postemergence only weed control program: This product may be applied alone as a postemergence in-crop application to provide control of emerged weeds listed on the label. The postemergence application of this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop. If new flushes of weeds occur, a sequential application of this product at 24 to 32 fluid ounces per acre will control the tabeled grasses and broadleaf weeds. This product may be applied postemergence to Roundup Ready corn from emergence through the V8 stage or until corn height reaches 30 inches (free standing), whichever comes first.

This product may be applied in tank mixture with a labeled rate of Hamess. Hamess Xtra, Harness Xtra 5.6L, Micro-Tech, Bullet, Partner, Permit[®] or atrazine. Refer to the specific product label and observe all precautions and limitations on the label for all products used in tank mixtures, including application timing restrictions, soil restrictions, minimum re-cropping interval and rotational guidelines—the more restrictive requirements apply. Tank mixtures with other products may result in increased potential for crop injury and/or weed antagonism. Refer to the table below for height limitation for tank mix partner.

Tank Mix Partner	Maximum Height Of Corn For Application		
Hamess Harness Xtra Hamess Xtra 5.6L	11 inches		
Bullet* Micro-Tech* Partner*	5 inches		
Permit	24 inches		
Atrazine	12 inches		

*Bullet, Micro-Tech and Panner are not registered for use as a posternergence application in Texas.

Bullet, Harness, Micro-Tech and Partner are registered trademarks of Monsanto Company, Permit is a trademark of, and used under license from, Nissan Chemical Industries, Ltd.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin run" seed saved from the previous year's productions and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

This supplemental label expires December 31, 2001.

21137Y1-77

2/2/2000



January 25, 2000

MONSANTO COMPANY 600 13TH STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2468

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475) Submission of Final Printed Supplemental Label for

Postemergence applications to Sugar beets with

the Roundup Ready Gene

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label (Print Plate No. 21137Y2-58) for Roundup Ultra Herbicide for postemergence sugar beets with the Roundup Ready Gene. This supplemental is the same as the submission dated May 4, 1999 but with a new expiration date of February 1, 2001.

If you have any questions regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

Lebra Histor

cc: R. P. Schneider

United States Environmental Protection Washington, DC 2048	50 X Other 268151			
	n for Pesticide - Section I 2. EPA Product Manager 3. Proposed Classification			
1. Company/Product Number 524-475	Mr. James Tompkins			
4. Company/Product (Name) Roundup Ultra Herbicide	PM# X None Restricted			
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address	(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name			
<u> </u>	Section - II			
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.	X Finel printed labels in response to Agency letter dated "Me Too" Application. Other - Explain below.			
Explanation: Use additional page(s) if necessary. (For section Submission of final printed expiration date	d supplemental label with new Section - III			
Meterial This Product Will Be Packaged In:	3ection - III			
Child-Resistant Packaging Yes No * Certification must be submitted Unit Packaging Vas No No H "Yes" Unit Packaging wgt. No. per Container	Water Soluble Packaging Yes No If "Yes" Package wgt No, per Package wgt No, per Package wgt Other (Specify)			
3. Location of Nat Contents Information 4. Size(s) Ret	· · · · · · · · · · · · · · · · · · ·			
Label Container	On Labeling accompanying product			
6, Manner in Which Label is Affixed to Product Lithog Paper Stenci	glued - lifed			
Section - IV				
1. Contact Point IComplete items directly below for identification Name Dr. Russell P. Schneider	Title Agricultural Regulation Director			
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. 8. Date Application Received (Stampul)				
	Registration Specialist			
	5. Data January 25, 2000			
EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolate.	White - FP4 File Constitution - Value - Apallacia Con			

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, end use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form(8570-27);
- 4. Five copies of draft lebeling;
- 5. Three copies of any date submitted;
- 8. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate sturage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriete action for which you are submitting this form.

<u>SECTION I</u> - This section must be completed, as applicable, for all registration actions,

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Pactiaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable (mendments).

- 1. Type of Packaging Chack the appropriate block if your product will be packaged in the indicated packaging types:
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product,
- 4. Sizefal of Retail Container Specify the net contents of all retail containers for your product,
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which 'abe! is affixed to product indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "mr-too," reregistration, etc.

- 1-5, Self-explanatory,
- 6. EPA Use Only

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA™ HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

FOR POSTEMERGENCE APPLICATIONS TO SUGAR BEETS WITH THE ROUNDUP READY® GENE.

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

GENERAL INFORMATION MONSANTO COMPANY RECOMMENDS USE OF THIS PRODUCT ONLY ON SUGAR BEETS WHICH HAVE THE ROUNDUP READY® GENE.

Applying this product to sugar beets which are not designated as Roundup Ready will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops, or any desirable plants which do not contain the Roundup Ready gene since severe injury or destruction will result. The Roundup Ready designation indicates that the sugar beets contains a patented gene which provides tolerance to Monsanto's Roundup brand herbicides. Information on Roundup Ready sugar beets may be obtained from your seed supplier or Monsanto representative.

USE RECOMMENDATIONS

For application prior to planting and emergence refer to the Roundup Ultra herbicide label.

This product will control many troublesome emerged weeds with over-the-top applications in Roundup Ready sugar beets. Allow a minimum of 30 days between last application and sugar beet harvest.

For ground applications with broadcast equipment, apply this product in 5 to 40 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment use flat fan nozzles. Check for even ciutribution of spray droplets.

For aerial application: Use the recommended rates of this product in 3 to 15 gallons of spray solution per scre.

DO NOT EXCEED ONE QUART OF THIS PRODUCT PER ACRE WHEN MAKING APPLICATIONS BY AIR FOR AERIAL.

APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATION IN THAT STATE. AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE. DO NOT APPLY DURING LOW-LEVEL INVERSION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product to Roundup Ready sugar beets. Follow the cleaning procedures specified on the label of the products(s) used. Sugar beets can be very sensitive to many herbicides at extremely low concentrations and care should be taken to thoroughly clean all equipment prior to use.

Up to 4 sequential applications of this product may be made with at least 10 days between applications.

	Growth Stage		
	emergence to 8 leaf	8 leaf to canopy closure	
Maximum per acre Roundup Ultra Quantity (Qts) 2.5	2	
Maximum per application Roundup Ultra Quantity (Qts) 1.5	1	

Do not apply a total of more than 2.5 quarts per acre prior to the 8 leaf stage.

Do not apply a total of more than 2 quarts per acre between the 8 leaf stage and canopy closure. There are no rotational crop restrictions following applications of this product. For any crop NOT listed in the label booklet (refer to the "CROPS" section of the label booklet for Roundup Ultra herbicide), applications must be at least 30 days prior to planting.

Over-the-top applications: This product may be applied postemergent to Roundup Ready sugar beets from emergence to 30 days prior to harvest. To maximize yield potential spray sugar beets early to eliminate competing weeds. Sequential over-the-top applications of this product should be at least 10 days apart.

Weeds controlled. For specific rates of application and instructions for control of various annual and perennial weeds, refer to the Roundup Ultra herbicide label booklet.

Tank mixtures with other herbicides, insecticides, or fungicides may result in reduced weed control or crop injury and are NOT recommended for over-the-top applications of this product.

Ammonium sulfate may be mixed with this product for applications to Roundup Ready sugar beets. Refer to the "MIXING" section of the label booklet for use instructions for ammonium sulfate.

Some weeds with multiple germination times or suppressed (stunted) weeds may require a second application of this product for complete control. The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product.

This product will control or suppress, most perennial weeds. For some perennial weeds, repeat applications may be required to eliminate crop competition throughout the growing season.

Read the "LIMIT OF WARRANTY OR LIABILITY" in the label booklet for Roundup Ultra herbicide before using. For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin run" seed saved from previous year's production and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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This supplemental label will expire February 1, 2001.

21137Y2-58

3/31/99



January 25, 2000

MONSANTO COMPANY 600 13th Street, N.W. Suite 660 Washington, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2468

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Canola with the Roundup Ready Gene

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label (Print Plate No. 21137Y2-57) for Roundup Ultra Herbicide for canola with the Roundup Ready Gene. This supplemental is the same as the submission dated April 21, 1999 but with a new expiration date of February 1, 2001.

If you have any questions regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

Sebre Horato

cc: R. P. Schneider

Please read instructions on	reverse before completing form.	Form App	roved. OMB No. 2070-008	30	
≎EPA	United States Environmental Protectio	-	Registration Amendment	OPP Identifier Number 268149	
	Washington, DC 204	160	x Other	200140	
	Application	on for Pesticide - Sec	tion I		
1. Company/Product Number	524-475	2. EPA Product Mai	T	Proposed Classification	
4. Company/Product (Name Roundup Ultra		PM# 25		X None Restricted	
Monsanto Comp 600 13th Stre Washington, D	et, N.W., Suite 660 C 20005	(b)(i), my product to:		th FIFRA Section 3(c)(3) composition and labeling	
Check if thi	s is a new address	Product Name			
1		Section - II			
Amendment - Explai	n below,	1 X 1 ·	ed labels in response to		
Resubmission in rea	ponse to Agency letter dated	Agency le	tter deted Application,	 _	
Notification - Explain	n below.	Other - Ex	plain below.		
Explanation: Use addition	nal page(s) if necessary. (For sectio	n I and Section II.)	`		
ĺ					
Subm	ission of final printed	label with new exp	iration date		
		Section - III			
1. Material This Product W	ill Se Packaged In:				
Child-Resistant Packaging	Unit Packaging	Water Soluble Packaging	2. Type of Contain	ner	
Yee*	Yes	Yes	Meta		
No.	No	No	Glasi	-	
* Certification must be submitted	If "Yes" No. per Unit Packaging wgt, container	If "Yes" No. per Package wgt contain		r r (Specify)	
3. Location of Net Contents	Information 4. Size(s) Re	tail Conteiner	5. Location of Label Direc	ctions	
Label	Container		On Label On Label	empanying product	
6, Manner in Which Label in		glued	et,		
	Section - IV				
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Dr. Russell	P. Schneider			none Ya. (Include Area Code) 2) 783-2460	
	Certification 6. Date Application				
l certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. Received Received (Stamped)					
2. Signature		3. Title			
Sel	ra Hinton	Registration S	pecialist 		
4. Typed Name Deb	ra Hinton	5. Date January 25,	2000		
	the second of the second	Na La La Caracteria (Caracteria de Caracteria (Caracteria de Caracteria (Caracteria de Caracteria (Caracteria (Car		****	
EFA FORM 8570-1 (Rev. 8-9	4) Previous editions are obsolete.	w	hite - EPA File Conv. fortate	ati Vallous Anallases Caes	

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comfletts regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amandment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections 1, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION 11 - This section must be completed for all applications submitted to smend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agancy letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Size is) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory
- 6. EPA Use Only.

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA™ HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

FOR CANOLA WITH THE ROUNDUP READY® GENE

Keep out of reach of children. CAUTION!

In case of emergency involving this product, Call Collect, day or night, (314) 594-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

GENERAL INFORMATION
MONSANTO COMPANY RECOMMENDS USE OF THIS PRODUCT
ONLY ON CANOLA WHICH CONTAINS THE ROUNDUP READY
GENE. DO NOT USE THIS PRODUCT
ON CANOLA WITH THE ROUNDUP
READY GENE PLANTED IN THE
FOLLOWING STATES: ALABAMA,
DELAWARE, FLORIDA, GEORGIA,
KENTUCKY, MARYLAND, NEW JERSEY, NORTH CAROLINA, SOUTH

CAROLINA, TENNESSEE, VIRGINIA AND WEST VIRGINIA.

- Applying this product to canola which is not designated as Roundup Ready will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops, or any desirable plants which do not contain the Roundup Ready gene since severe injury or destruction will result.
- The Roundup Ready designation indicates the canola contains a patented gene which provides tolerance to this herbicide. Information on Roundup Ready canola may be obtained from your seed supplier or Monsanto representative.

USE RECOMMENDATIONS

This product will control many troublesome emerged weeds when applied preplant, preemergent and/or with overthe-top applications in Roundup Ready canola. Allow a minimum of 60 days between last application and canola harvest.

Maximum Allowable Combined Application Quantities Per Season:

- Preplant and preemergence applications
 2 quarts/A
- Total in-crop application from emergence to 6 leaf 1 quart/A

For ground applications with broadcast equipment, apply this product in 5 to 20 gallons of spray sclution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment use flat fan nozzles. Check for even distribution of spray droplets.

For aerial applications apply this product in 3 to 15 gallons of water per acra-

DO NOT EXCEED A MAXIMUM RATE
OF 16 OUNCES PER ACRE OF THIS PRODUCT WHEN MAKING APPLICA-

TIONS BY AIR. AVOID DRIFT, EX-TREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PRE-VENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE. DO NOT APPLY DURING LOW-. LEVEL INVERSION CONDITIONS. WHEN WINDS ARE GUSTY OR UN-DER ANY OTHER CONDITIONS WHICH FAVOR DRIFT, DRIFT MAY CAUSE DAMAGE TO ANY VEGETA-CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPRO-PRIATE BUFFER ZONES MUST BE MAINTAINED.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

There are no rotational crop restrictions following applications of this product.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product to Roundup Ready canola. Follow the cleaning procedures specified on the label of the product(s) previously used. Canola can be very sensitive to many herbicides at extremely low concentrations and care should be taken to thoroughly clean all equipment prior to use.

Preplant or Preemergent applications: This product may be applied by aerial or ground application equipment prior to planting or emergence of canola. The maximum combined application rate from all preplant and preemergent applications should not exceed 2 quarts per acre per season.

NOTE: In no-till and stale seedbed systems, always use a burndown treatment to control existing weeds before canola emerges. Apply a preplant burndown treatment of 16 to 32 fluid ounces per acre of this product.

Over-the-top applications: This product may be applied by aerial or ground application equipment postemergence to Roundup Ready canola from emergence through the six leaf stage of development. To maximize yield potential spray canola early to eliminate competing weeds. Any single over-the-top broadcast application should not exceed 16 ounces per acre. No more than two over-the-top broadcast applications may be made from crop emergence through the six leaf stage of development. Sequential over-the-top applications of this product must be at least 10 days apart.

Weeds controlled. For specific rates of application and instructions for control of various annual and perennial weeds, refer to the Roundup Ultra herbicide label booklet.

Tank mixtures with other herbicides, insecticides, or fungicides may result in reduced weed control or crop injury and are not recommended for over-the-top applications of this product.

Some weeds with multiple germination times or suppressed (stunted) weeds may require sequential applications of this product for control. The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product.

This product will control or suppress, most perennial weeds. For some perennial weeds, repeat applications may be required to eliminate crop competition throughout the growing season.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin run" seed saved from previous year's production and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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This supplemental label will expire February 1, 2001.

21137Y2-57

3/31/99





January 20, 2000

Monsanto Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005 Tel.: (202) 783-2460

Fax: (202) 783-2468

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide; EPA Reg. No. 524-475 Submission of Final Printed Supplemental Label for Applications to Cotton with the Roundup Ready® Gene

Dear Mr. Tompkins:

Monsanto is submitting for your files, five (5) copies of the final printed supplemental label (print plate #: 21137Y4-20) for Roundup Ultra Herbicide for applications to Roundup Ready Cotton. This supplemental label was approved by the Agency on March 2, 1998. Additional clarification changes were notified to the Agency, January 14, 1999 and again in the final printed version submitted March 18, 1999. The enclosed supplemental label is the same as the final printed version submitted March 18, 1999, with the exception that the expiration date has been updated to April 1, 2001.

If you have any questions regarding this submission feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-8890.

Sincerely,

Annette M. Kirk

Registration Manager

Innetto M. Kri

cc:

R. P. Schneider

D. Fee-White

Please read instructions on reverse before completing form.	Form Approved. OMB No. 2	D7D_0080				
United States Environmental Protection Washington, DC 20460	Agency Registra	ation OPP Identifier Number				
Application	for Pesticide - Section I					
1. Company/Product Number 524/475	2. EPA Product Manager Mr. James A. Tompkins	3. Proposed Classification				
4. Company/Product (Name) Roundup Ultra Herbicide	PM# 25					
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address	(b)(i), my product is similar or idented to:	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No.				
	Section - II					
Amendment - Explain below. Resubmission in response to Agency letter dated "Me Too" Application. Notification - Explain below. Other - Explain below.						
Explanation: Use additional page(s) if necessary. (For section I s	•	Cotton with				
	Section - III					
1. Material This Product Will Be Packaged In:						
Teld-Resistant Packaging Yes* No No * Certification must be submitted Unit Packaging Yes No No No No No No Packaging wgt. container	Water Soluble Packaging Yes No If "Yes" Package wgt Total Container Package wgt No. per Package wgt Package wgt Package wgt Package wgt No. per Package wgt Package wgt Package wgt Package wgt	Container Metal Plastic Glass Paper Other (Specify)				
3. Location of Net Contents Information 4. Size(s) Retail Label Conteiner	On Labe					
S. Manner in Which Label is Affixed to Product Lithograp Paper glu Stenciled	Jed					
	Section - IV					
1. Contact Point (Complete items directly below for identification of	of individual to be contacted, if necessary, to p	rocess this apolication.)				
Nome Dr. Russell Schneider Tr	Director, Registration	Telephone No. (Include Area Code) 202-383-2866				
Certification I certify that the stetements I have made on this form and all		6. Data Application Received				

I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or

3. Title

5. Date

both under applicable law.

Annette M. Kirk

2. Signature

4, Typed Name

Registration Manager

20 January 2000

(Stamped)

V-8---- ^--8---- C

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INSTRUCTIONS: This form is to be used for all applications for new registration, and use raregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). Ilf not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 5. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels met in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

x it than paper for submission. Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this posticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration,

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contunts Indicate the location of the set contents information for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
 Location of Use Directions Indirect the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-ton," reregistration, etc.

- 1-5, Self-explanatory.
- 6. EPA Usa Only.

59

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



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EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

FOR COTTON WITH THE ROUNDUP READY® GENE IN-CROP APPLICATIONS

Keep out of reach of children.

CAUTION!

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

General Information

ATTENTION: MONSANTO RECOM-MENDS THIS PRODUCT FOR USE ONLY OVER-THE-TOP OF OR DI-RECTED ONTO IMPROVED COTTON VARIETIES THAT ARE DESIGNATED AS COTTON WITH THE ROUNDUP READY® GENE. SEVERE INJURY OR DEATH OF COTTON WILL RESULT IF ANY COTTON VARIETIES NOT PROP-ERLY DESIGNATED AS HAVING THE ROUNDUP READY GENE SPRAYED WITH THIS PRODUCT. AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, OR ANY DESIR-ABLE PLANTS AND TREES, OTHER THAN CROPS WITH THE ROUNDUP READY GENE, SINCE SEVERE INJURY OR DESTRUCTION WILL RESULT.

ROUNDUP READY COTTON VARIETIES MÚST BE PURCHASED FROM AN AUTHORIZED LICENSED SEED SUPPLIER THE DESIGNATION, "ROUNDUP READY", INDICATES THE COTTON VARIETY CONTAINS A PATENTED PROPRIETARY TRAIT.

Application Instructions

This product will control many troublesome weeds with over-the-top, postdirected, hooded sprayer, or preharvest applications in Roundup Ready cotton.

Maximum Allowable Yearly Rates

- Combined total per year for all applications 8 quarts/A
- Preplant, Preemergence applications 5 quarts/A
- Total in-crop applications from cracking to layby 4 quarts/A
- 4. Maximum preharvest application rate 2 quarts/A

For ground applications with broadcast equipment, apply this product in 5 to 20 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist.

For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

For aerial applications, apply this product in 3 to 15 gallons of water per acre.

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICA-TIONS BY AIR. AVOID DRIFT. EX-TREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PRE-VENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CON-TAIN THE ROUNDUP READY GENE. Do not apply during tow-level inversion conditions, when winds are gusty or under any other conditions which favor drift. Drift may cause damage to any vegetation contacted to which treatment is not intended. To prevent injury to adjacent desirable vegetation, appropriate buffer zones must be maintained.

There are no rotational cron restrictions following applications of this product.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product to Roundup Ready cotton. Follow the cleaning procedures specified on the label of the product(s) previously used. Cotton is very sensitive to many herbicides at extremely low concentrations and care should be taken to thoroughly clean all equipment prior to use.

In addition to uses listed in the Roundup Ultra herbicide label booklet, the following applications can be made:

Over-the-top applications: This product may be applied by aerial or ground application equipment postemergence to Roundup Ready cotton from the ground cracking stage until the four leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). "Overthe-top applications made after the four leaf (node) stage of development may result in boll loss, delayed maturity and/or yield loss. Any single over-the-top broadcast application should not exceed 1 quart per acre. No more than two over-the-top broadcast applications may be made from crop emergence through the four leaf (node) stage of development. Sequential over-the-top applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

NOTE: Always plant into a weed free seedbed. In no-till and stale seedbed systems, always burn down existing weeds before cotton emerges. Apply a preplant burndown treatment of 16-48 fluid ounces per acre of this product.

Post-directed or hooded applications. This product may be applied using precision post-directed or hooded sprayers to Roundup Ready cotton through layby. At this stage, post-directed equipment should be used which directs the spray to the base of the cotton plants. Contact of the spray with cotton leaves should be avoided to the maximum extent possible. To minimize spray onto the leaves of the cotton plants, place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact weeds in the row, and maintain low spray pressure (less than 30 PSI). For best results, make applications while weeds

are small (less than 3 inches). Any single post-directed application should not exceed 1 quart per acre of this product. No more than two applications should be made from the fifth leaf through layby. Sequential in-crop applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

ATTENTION: USE OF ROUNDUP ULTRA HERBICIDE IN ACCORDANCE WITH LABEL DIRECTIONS IS EX-PECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COT-TON, HOWEVER, VARIOUS ENVI-RONMENTAL CONDITIONS, AGRO-NOMIC PRACTICES AND OTHER FACTORS MAKE IT IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CON-FORMANCE WITH THE LABEL SPECIFICATIONS. IN SOME CASES. THESE FACTORS CAN RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.

Salvage Treatment. This treatment may be used after the four leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. One quart per acre may be applied either as an over-the-top applications or as a post-directed treatments sprayed higher on the cotton plants and over the weeds. NOTE: SALVAGE TREATMENTS WILL RESULT IN SIGNIFICANT BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS. NO MORE THAN ONE SALVAGE TREATMENT SHOULD BE USED PER GROWING SEASON.

Weeds controlled. For specific rates of application and instructions for control of various annual and perennial weeds, refer to "ANNUAL WEEDS RATE TABLE" section of the label booklet. Roundup Ultra herbicide applied at 1 quart per acre will burndown or suppress the growth of the following perennial weeds and reduce crop competition: yellow and purple nutsedge, rhizome johnsongrass, common bermudagrass, silverleaf nightshade, trumpet creeper, and redvine. Fall-preharvest applications may be required for control of these perennial weeds.

Tank mixtures with other herbicides may result in reduced weed control or crop injury and are not recommended for over-the-top applications of this product.

Some weeds with multiple germination times or suppressed (stunted) weeds may require sequential applications of this product for control.

Preharvest applications. This product may be applied for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton after 20% boll crack. Allow a minimum of 7 days between application and harvest. For specific recommendations refer to the "COTTON" section of the Roundup Ultra herbicide label booklet. NOTE: Roundup Ultra herbicide will not enhance the performance of harvest aids when applied to Roundup Ready cotton. DO NOT APPLY ROUNDUP ULTRA HERBICIDE PREHARVEST TO CROPS GROWN FOR SEED.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin-run" seed saved from previous year's production and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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This supplemental label will expire on April 1, 2001

8/11/99

21137Y4-20



MONSANTO COMPANY 600 13TH STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005

Tel: (202) 783-2460 Fax: (202) 783-2468

January 4, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Aerial application in California Only

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label (Print Plate No. 21137X3-14) for Roundup Ultra Herbicide for aerial application in California only. A notification was sent to the EPA on October 12, 1999.

If you have any question's regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

Lebra Henten

cc: R. P. Schneider

Please read instructions on reverse before completing form.	Form App	roved. OMB No. 2070-0	060	
SEPA Environmental Protection Washington, DC 2046	- '	Registration Amendmen X Other		
Application	n for Pesticide - Sec	ction 1		
1. Company/Product Number 524-475	2. EPA Product Ma Mr. James		3. Proposed Classification	
4.Company/Product(Name) Roundup Ultra Herbicide	PM# 25	······	X None	
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address	(b)(i), my product to:	t is similar or identical i	with FIFRA Section 3(c)(3) in composition and labeling	
	Section - II			
Amendment - Explain below. Resubmission in response to Agency letter deted Notification - Explain below.	ed labels in response to ster dated			
Explanation: Use additional page(s) if necessary. (For section Submission of final printed supplement	•		·	
	Section - III			
1. Material This Product Will Be Packaged In:				
Child-Resistent Packaging Yes* No No * Certification must be submitted Unit Packaging Yes No No No No No No Packaging Yes No, per Unit Packaging wgt. container	Water Soluble Packaging Yes No If "Yes" No. pe Package wgt contain	PI GI Pe	tainer etal estic ass oper ther (Specify)	
3. Location of Net Contents Information 4. Size(s) Ret Label Conteiner	ail Container	5. Location of Label D On Label On Labeling	irections accompanying product	
S. Manner in Which Label is Affixed to Product Lithogu Paper Stencil	olued	hor		
	Section - IV			
1. Contact Point (Complete items directly below for identification	n of individual to be contacte	d, if necessary, to proces	ss this application.)	
Name Dr. Russell P. Schneider Title Agricultural Regulation Director (202) 783-246				
Certifica I certify that the statements I have made on this form and I acknowledge that any knowingly false or misleading state both under applicable law.	ell attachments thereto are t	rue, accurate and comple fine or imprisonment or	6. Data Application Received (Stamped)	
2. Signature Lebre Hentin	3. Tius Registration	กับ• Registration Specialist		
4. Typed Name Debra Hinton	5. Date January	63		

White - EPA File Conv. Indolesis

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 5. Authorization letter where applicable;
- 7. Matrices where epplicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please reed the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

<u>SECTION 1</u> - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retall Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Sizets; of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resultantian, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
- 8. EPA Use Only.

SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL FOR ROUNDUP ULTRA HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

FOR AERIAL APPLICATION IN CALIFORNIA ONLY.

Keep out of reach of children.
CAUTION!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of the herbicide application.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for essential product information.

See the "CROPS" section of the label booklet for specific recommendations on the use of this product.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF THE SPRAY WITH FOLIAGE, GREEN STEMS, OR FRUIT OF DESIRABLE CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY CROPS), PLANTS, TREES OR OTHER DESIRABLE VEGETATION, SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

Aerial applications of this product are allowed in the following situations:

 In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops. In cotton, prior to harvest. Refer to the Roundup Ultra® herbicide booklet for specific preharvest application instructions.

Do not plant subsequent crops other than those listed in the label booklet for 30 days following application.

When applied as recommended under the conditions described, this product controls annual and perennial weeds listed in the label booklet.

When tank mixing this product with 2,4-D for aerial applications, only 2,4-D amine formulations may be used.

DO NOT EXCEED A MAXIMUM RATE OF 2 GUARTS PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN FALLOW AND REDUCED TILLAGE SYSTEMS.

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN COTTON, PRIOR TO HARVEST.

Aerial Equipment

Use the recommended rates of this product in 3 to 15 gallons of water per acre. Do not apply directly-to water, to areas where surface water is present or to intertioal areas below.

65

the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

AVOID DRIFT—DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Use the following guidelines when aerial applications are made near crops or desirable perennial vegetation after bud break and before total leaf drop, and/or near other desirable vegetation or annual crops.

- Do not apply within 100 feet of all desirable vegetation or crop(s).
- 2. If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s), do not apply within 500 feet of the desirable vegetation or crop(s).
- Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet.
- Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the air-stream and do not increase spray volume by increasing nozzle pressure. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Ensure uniform application—To avoid streaking, uneven, or over-lapped application, use appropriate marking devices. Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART, LANDING GEAR IS MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label for Roundup Ultra herbicide before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

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21137X3-14

10/12/99



December 10, 1999

Monsauto Company

800 NORTH LINDBÉRCH BOULEVARD

St. Louis, Missouri 63:67

PHONE (3:2) 694-1000

http://www.monsanto.com

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

cut stump applications in tree crops

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label (Print Plate No. 21137X1-75) for Roundup Ultra Herbicide for cut stump applications in site preparation and renovation for tree crops. This supplemental label was approved by the EPA November 18, 1999.

If you have any questions regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

Lebu Hinton

cc: R. P. Schneider

Please read instructions on reverse before completing form.	Form Approved. OMB No. 2070-0080				
United States Environmental Protection Age Washington, DC 20460	ncy Registration OPP Identifier Number Amendment 268014				
Application for	Pesticide - Section I				
1. Company/Product Number 524-475	Mr. James Tompkins				
4. Company/Product (Name)	PM# Restricted				
Roundup Ultra Herbicide	25				
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No				
Check if this is a new address	Product Name				
Sec	tion - II				
Amendment - Explain below. Resubmission in response to Agency letter deted Notification - Explain below.	X Final printed labels in response to Agency letter dated "Me Too" Application. Other - Explain below.				
Explanation: Use additional page(s) if necessary. (For section I and St	oction II.)				
Submission of final printed supplemental					
Sec	tion - III				
1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging Unit Packaging Water	Soluble Packaging 2. Type of Container				
Yes Yes	Yes Metal				
No No	No Glass				
* Certification must If "Yes" No. per If "Yes" Unit Packaging wgt. container Packaging wgt.	ge wgt container Paper Other (Specify)				
3. Location of Net Contents Information 4. Size(s) Retail Conta					
Label Container .	On Labeling accompanying product				
6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stendiled	Other				
	tion - IV				
1. Contact Point (Complete items directly below for identification of indiv	ridual to be contacted, if necessary, to process this application.)				
l me a sa s	Agricultural Regulation Telephone No. (Include Area Code) Director (202) 783-2460				
Certification I certify that the statements I have made on this form and all attacl I acknowledge that any knowingly false or misleading statement m both under applicable law.	oments thereto are true, accurate and complete. sy be punishable by fine or imprisonment or (Stamped)				
2. Signature 3. Title					
1.1.4.1.	istration Specialist				
4. Typed Name Debra Hinton 5. Date	December 10, 1999				
EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.	White a FDA File Coast (addates)				

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per apponse, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and eviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Vashington, DC 20460.

NSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications or notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration aubmitted on this form, the following material must accompany the application:

- 1 Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2 Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5 Three copies of envidate submitted:
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be aubmitted in the form of draft labels with all applications for new registration. Such draft labels may have form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 to 11 inch paper for submission.

t 11 inch paper for submission. Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

EPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- Z. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- Proposed Classification Specify the proposed classification of this product.
- Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only.

 Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are ecting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 5. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pasticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for ell applications submitted to emend the registration only of a currently registered product Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for aregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for agistration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, past or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "ganeral label revision of use directions." Attach a separate page if additional space is needed.

ECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new agistration or applicable amendments.

- . Type of Peckaging Check the appropriate block if your product will be peckaged in the indicated peckaging types.
 Indicate the size of the individual packets and number per retail container.
- . Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Indicate the location of the net contents information for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- . Manner in which label is affixed to product Indicated the method product label is attached to retail container.

ECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, sections, "me-too," reregistration, etc.

- -5. Self-explanatory.
- EPA Use Only.

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra is a registered trademark of Monsanto Company.

FOR CUT STUMP APPLICATIONS IN SITE PREPARATION AND RENOVATION FOR TREE CROPS

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLI-AGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DE-SIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See 'GENERAL INFORMATION' and 'MIXING' sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

USE INSTRUCTIONS: Cut stump applications of this product may be made during site preparation or site renovation, prior to transplanting tree crops. This product will control regrowth of cut stumps and resprouts of many types of tree species, some of which are listed below.

<u>Citrus Trees</u>: Calamondin, Chironja, Citron, Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (Tangerine), Orange (All), Pummelo, Tangelo, Tangor

Fruil Trees: Apple, Apricot, Cherry (Sweet, Sour), Crabapple, Loquat, Mayhaw, Nectarine, Olive, Peach, Pear, Plum/Prune (All), Quince

Nut Trees: Almond, Beechnut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory Nut, Macadamia, Pecan, Pistachio, Walnut (Black, English)

Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut trees or resprouts close to the soil surface. Apply a 50 to 100 percent solution of this product to the freshly-cut surface immediately after cutting. Delays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full leaf expansion.

PRECAUTIONS, RESTRICTIONS: DO NOT MAKE CUT STUMP APPLICATIONS WHEN THE ROOTS OF ADJACENT DESIRABLE TREES MAY BE GRAFTED TO THE ROOTS OF THE CUT STUMP. INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES. IN ORCHARDS, DO NOT MAKE CUT STUMP APPLICATIONS FOR SELECTIVE REMOVAL OF INDIVIDUAL TREES WITHIN A DESIRABLE ROW OR GROVE. USE CUT STUMP APPLICATIONS ONLY FOR COMPLETE REMOVAL OF ALL ORCHARD TREES IN ONE AREA.

Read the 'LIMIT OF WARRANTY AND LIABIL-ITY' in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©1999 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

21137X1-75

11/18/99

Monsanto Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005

Tel: (202) 783-2460 Fax: (202) 783-2468

January 5, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® RT Herbicide (EPA Reg. No. 524-475)

Final Printed Labeling

Responsive to Approval dated 13-Jan-1999

Dear Mr. Tompkins:

Enclosed are five copies of label booklets identified by Print Plate No. 21138X3-1/53 and dated 1999-1. This labeling implements the changes approved by the Agency on 13-Jan-1999.

The printed labeling differs from the stamped text in the following minor ways:

 Optional phrases concerning the President's Green Chemistry award and the Roundup Family of brands were not printed on the booklet.

• The container label statements approved to instruct users regarding storage, disposal, and reformulation have not been printed on the booklet but can be found on the container labels.

Mr. Tompkins Page 2 5-Jan-00

- The voluntary market-based geographic limitations to certain states were added to the
 cover and on pages 2 and 3. This has been the practice in prior versions of the label.
 Monsanto has deleted these limitations from the 13-Jan-99 EPA-approved label in
 order to ensure the option to market this product in any US locale, but chooses at this
 time to limit the use as shown.
- An additional new patent number has been added to the statement in Section 1.0.
- In Section 8.1 and 8.15, "Types of Applications" were reordered to agree with ordering in text below.
- In Section 8.3, the paragraph referring to "Red Rice control prior to planting rice" was reformatted to match the other label sections.
- In Section 8.9, a typographical error referring to "corn" was replaced with "milo".
 The sentence at the end of the Section referring to a limitation in California was removed because the product is not marketed in California.
- In Section 8.10, headers "Site Preparation" and "Preplant, Preemergence, Renovation" were added to clarify the application types associated with the separate instruction paragraphs.
- In Section 8.15, the phrase "of trees" was removed from the parenthetical clarification following "Middles" under "Types of Application" since in this context "middles" refers to both vines and trees. The additional header "Gerneral Weed Control" was added to help clarify the different paragraphs.

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-1582 or by fax at 314-694-4028.

Sincerely,

Stephen J. Wratten Manager, Registrations

cc:

R. P. Schneider

D. Fee-White

G. Elmore

File: Ultra RT Booklet FPL.doc

Please read instructions on	reverse before completing form.	Form Appr	oved. OMB No. 2070-0	0060	
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Environmental Protection		-	Amendmer	^{it} 267973	
<u></u>	Washington, DC 2046	0 .	Other	- COLDIA	
	Application	for Pesticide - Sec	tion I		
1. Company/Product Number	524-475	2. EPA Product Man Mr. James	eger Tomnkins	3. Proposed Classification	
	 _	 	10mpk 1115	None Restricted	
4. Company/Product (Name Round	up Ultra RT Herbicide	PM# 25			
5. Name and Address of Ap		.1		with FIFRA Section 3(c)(3)	
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Washington,				_ _	
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6. Manner in Which Label i	s Affixed to Product Lithogr Paper Stencil	eph Oth	or		
Section - IV					
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name		Tide Agricultural		laphone No. (Include Area Code)	
Dr. Russell	P. Schneider	Director		202) 783-2460	
Certification 6. Date Application					
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. Received Lacknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or (Stamped)					
both under applicable law. (Stamped)					
2. Signature	11/1/	3. Title			
Steam	1/1/1/Let	Manager, Regis	trations		
4. Typed Name		5. Date		→ 73	
Step	hen J. Wratten, Ph.D.	January 5, 2000			
EPA Form 8570-1 (Rev. 8-5	34) Previous editions ere obsolete.	w	hite - EPA File Copy to	ciginal) Yallow - Applicant Con-	

White - EPA File Copy (original)

Yallow - Applicant Conv

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comfletts regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted:
- 6. Authorization letter where applicable:
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels mey in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label; if prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only.

 Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.

 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retall Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product,
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container,

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.



Complete Directions for Use

EPA Reg. No. 524-475

For control of annual and perennial weeds in Colorado, Idaho, Kansas*, Minnesota*, Montana, Nebraska*, Nevada*, North Dakota, Oklahoma*, Oregon*, South Dakota, Utah, Washington* and Wyoming.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE. GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.



For control of annual and perennial weeds in Colorado. Idaho, Kansas*, Minnesota*, Montana, Nebraska*, Nevada*, North Dakota, Oklahoma*, Oregon*, South Dakota, Utah, Washington* and Wyoming.

COUNTY RESTRICTIONS

This product can only be used in certain counties in Kansas, Minnesota, Nebraska, Nevada, Oklahoma, Oregon and Washington. See the following sections for county use restrictions for these states.

In KANSAS and NEBRASKA, this product can be used in all counties EXCLUDING those listed below:

KANSAS:

Allen, Anderson, Atchinson, Bourbon, Brown, Chase, Cherokee, Clay, Coffey, Crawlord, Dickinson, Boniphan, Douglas, Franklin, Geary, Jackson, Jefferson, Johnson, Labette, Leavenworth, Linn, Lyon, Marion, Marshall, Miami, Montgomery, Morris, Nemaha, Neosho, Osage, Pottawalomie, Riley, Shawnee, Wabaunsee, Washington, Wison, Woodson, Wyandotte

NEBRASKA:

Antelope, Boone, Burt, Cass, Cedar, Colfax, Cuming, Dakota, Dixon, Dodge, Douglas, Gage, Hamilton, Jefferson, Johnson, Knox, Lancaster, Madison, Merrick, Nance, Nemaha, Otoe, Pawnee, Pierce, Platte, Poik, Richardson, Saline, Sarpy, Saunders, Seward, Stanton, Thurston, Washington, Wayne, York

In MINNESOTA, NEVADA, OKLAHOMA, DREGON and WASH-INGTON, this product can be used ONLY in those counties listed below:

MINNESOTA:

Becker, Beltrami, Clay, Clearwater, Douglas, Grant, Hubbard, Kittson, Lake of the Woods, Mahnomen, Marshall, Norman, Ottertail, Pennington, Polk, Red Lake, Roseau, Wadena, Wilkin

NEVADA:

Churchill, Elko, Eureka, Humboldt, Lyon, Pershing

OKLAHOMA:

Beaver, Cimarron, Texas

<u>OREGON</u>

Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, Wheeler

WASHINGTON:

Adams, Asotin, Benton, Chelan, Columbia, Douglas, Ferry, Franklin, Garfield, Grant, Kittitas, Klickitat, Lincoln, Okanogan, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman, Yakima

Read the entire label before using this product.

Use only according to label instructions.

 ${\rm H}$ is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of the label before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT, MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

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CONTENTS

PRECAUTIONARY STATEMENTS

1.0 INGREDIENTS

*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active-ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

This product is protected by U.S. Patent No. 4,405,531 and by U.S. Patent No. 5,703,015. Other patents pending. No license granted under any non-U.S. patent(s).

2.0 IMPORTANT PHONE NUMBERS

 FOR PROJUCT NEW AND OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE,

13:00332331

2. IN CASE OF AN EMERGENC INVOLVING THIS PRODUCT, OR FOR MEDICAL ASSISTANCE CALL COLLECT, DAY OR NIGHT,

KILLERENDO

3.0 PRECAUTIONARY STATEMENTS

3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

CAUSES EYE IRRITATION.

Avoid contact with eyes or clothing.

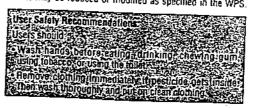
FIRST AID: IF IN EYES, flush with plenty of water. Get medical attention if irritation persists.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration, Call a veterinarian if symptoms persist for more than 24 hours.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long-pants, shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.



PRECAUTIONARY STATEMENTS

H

3.2 Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

3.3 Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, liberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

ACCICUITITATUS e Requirements

Use his provincion y accordance with its labeling and in the provincion of the provincion

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PRECAUTIONARY STATEMENTS

4.0 STORAGE AND DISPOSAL

Do not contaminate water, foodsfulfs, fixed or seed by storage or disposal.

See container label for STORAGE AND DISPOSAL

5.0 GENERAL INFORMATION (How this product works)

Product Description: This product is a postemergent, systemic herbicide with no soil residual activity. It is generally non-selective and gives broad spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble liquid. It may be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water or other carriers according to label instructions.

Do not add surfactants, additives containing surfactants, buffering agents or pH adjusting agents to the spray solution when Roundup Ultra RTIM herbicide is the only pesticide used. Ammonium sulfate, drift control additives, dyes or colorants may be used. See the "MIXING" section of this label for instructions.

Time to Symptoms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above-ground growth and deterioration of underground plant parts.

Stage of Weeds: Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the annual, perennial, woody brush and trees rate tables for recommendations for specific weeds.

Always use the higher rate of this product per acre within the recommended range when weed growth is heavy or dense or weeds are growing in an undisturbed (noncultivated)

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

Cultural Considerations: Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Rainfastness: Heavy rainfall soon after application may wash this product off of the foliage and a repeal application may be required for adequate control.

Spray Coverage: For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Mode of Action: The active ingredient in this product inhibits an enzyme found only in plants and microorganisms that is essential to formation of specific amino acids.

No Soil Activity: Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow.

GENERAL INFORMATION



GENERAL INFORMATION

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When this product comes in contact with soil, it is bound to soil particles. Under recommended use situations, once this product is bound to soil particles, it is not available for plant uptake and will not harm off-site vegetation where roots grow into the treated area or if the soil is transported off-site. The strong affinity of this product to soil particles prevents this product from leaching out of the soil profile and entering ground water.

Biological Degradation: Degradation of this product is primarily a biological process carried out by soil microbes.

Volatility: Roundup Ultra RT herbicide is non-volatile. Therefore, it cannot move as a vapor after application to affect nearby vegetation.

Toxicology Testing: Exposure to workers and other applicators generally is expected to pose minimal risks based on results of short-term toxicity studies. Glyphosate has been thoroughly tested and determined not to cause cancer or other adverse long-term health effects.

Tank Mixing: This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this labeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

Annual Maximum Use Rate: Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts of this product per acre per year.

For noncrop uses, the combined total of all treatments must not exceed 10.6 quarts of this product per acre per year.

ATTENTION

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIR-ABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

6.0 MIXING

Clean sprayer parts immediately after using this product by thoroughly flushing with water.

NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS VISIBLY MUDDY WATER OR WATER FROM PONDS AND DITCHES THAT IS NOT CLEAR.

MIXING

13

6.1 Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the recommended amount of this product near the end of the filling process and mix well. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations. Ouring mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

6.2 Tank Mixing Procedure

Mix labeled tank mixtures of this product with water as follows:

- Place a 20 to 35 mesh screen or wetting basket over filling port.
- Through the screen, fill the spray tank one-half full with water and start agitation.
- If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
- If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
- If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
- Continue filling the spray tank with water and add the required amount of this product near the end of the filling process.

 Add individual formulations to the spray tank as follows; wettable powder, flowable, emulsifiable concentrate, drift control additive and water soluble figuid.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

Refer to the "TANK MIXING" section of "GENERAL INFOR-MATION" for additional precautions.

6.3 Mixing for Hand-Held Sprayers

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

Sgray Solution

Desired Volumes		Amol	im of Ro		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	in/
1 Gal	₩ oz	1⅓ oz	2 02	234 oz	6% oz	13 oz
25 Gal	1 pt	1 qt	1% qt	2 qt	5 qt	10 qt
100 Gal	2 qt	1 gai	1½ gal	2 gal	5 gai	10 gal

2 tablespoons = 1 fluid ounce

For use in knapsack sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

MIXIM

6.4 Ammonium Sulfate

The addition of 1 to 2 percent dry ammonium sultate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product, particularly when tank mixed with certain residual herbicides on annual and perennial weeds. The equivalent rate of ammonium sulfate in a liquid formulation may also be used. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

NOTE: When using ammonium sulfate, apply this product at rates recommended in this label. Lower rates will result in reduced performance.

6.5 Colorants or Dyes

Agriculturally approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions. Use colorants or dyes according to the manufacturer's recommendations.

6.6 Drift Control Additives

Orift control additives may be used with all equipment types, except wiper applicators, sponge bars and CDA equipment. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

7.0 APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.

This product may be applied with the following application equipment:

Aerial—Fixed Wing and Helicopter

Ground Broadcast Spray—Boom or boomless systems, pull-type sprayer, floaters, pick-up sprayers, spray coupes and other ground broadcast equipment.

Hand-Held and High-Volume Spray Equipment—Knapsack and backpack sprayers, pump-up pressure sprayers, hand-guns, handwands, mistblowers, lances and other hand-held and motorized spray equipment used to direct the spray onto weed foliage.

Selective Equipment—Recirculating sprayers, shielded and hooded sprayers, wiper applicators and sponge bars.

Injection Systems—Aerial or ground injection sprayers.

Controlled Droplet Applicator (CDA)—Hand-held or boommounted applicators which produce a spray consisting of a narrow range of droplet sizes.

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.

7.1 Aerial Equipment

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. Unless otherwise specified, do not exceed 1 quart per agre. Aerial applications of this product may be made in annual cropping conventional tillage systems, tallow and reduced tillage systems and preharvest applications. Refer to the individual use area sections of this label for recommended volumes and application rates.

Avoid direct application to any body of water.

AVOID DRIFT—DO NOT APPLY DURING LOW-LEVEL INVERSION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESTRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Ensure uniform application—To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND PDSSIBLE FAILURE OF THE PART, LANDING GEAR ARE MOST SUSCEPTIBLE. The maintenance of an organic coating (paint), which meets aerospace specification MIL-G-38413, may prevent corrosion.

7.2 Ground Broadcast Equipment

Use the recommended rates of this product in 3 to 40 gations of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

7.3 Hand-Held and High-Volume Equipment

Apply to foliage of vegetation to be controlled. For applications made on a spray-to-well basis, spray coverage should be uniform and complete. Do not spray to the point of runoff, Use coarse sprays only.

For control of weeds listed in the annual weeds rate tables, apply an 0.5 percent solution of this product to weeds less than 6 inches in height or runner length. Apply prior to seed-head formation in grass or bud formation in broadleaf weeds. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1 percent solution.

For best results, use a 2 percent solution on harder-to-control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

When using application methods which result in less than complete coverage, use a 5 percent solution for annual and perennial weeds and a 5 to 10 percent solution for woody brush and trees.

7.4 Selective Equipment

This product may be applied through recirculating spray systems, shielded applicators, hooded sprayers, wiper applicators or sponge bars after dilution and thorough mixing with water to listed weeds growing in any farmstead site specified on this label and only when specifically recommended in cropping systems.

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation, while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded or hooded applicator directs the herbicide solution onto weeds, while shielding desirable vegetation from the herbicide.

A wiper or sponge applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.

Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators used above desirable vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation. Droplets, mist, foam or splatter of the herbicide solution settling on desirable vegetation may result in discoloration, stunting or destruction.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

Shielded and hooded applicators

Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.

A hooded sprayer is a type of shielded applicator. The spray pattern is completely enclosed on the top and all 4 sides by a hood, thereby shielding the crop from the spray solution. This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in

any way. If the hoods are raised, spray particles may escape and come into contact with the crop, causing damage or destruction of the crop. The spray hoods must be operated on the ground or skimming across the ground. Tractor speed must be adjusted to avoid bouncing of the spray hoods. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

Wiper applicators and sponge bars

Wiper applicators are devices that physically wipe appropriate amounts of this product directly onto the weed.

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if 2 applications are made in opposite directions.

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

Do not use wiper equipment when weeds are wet.

Mix only the amount of solution to be used during a 1-day period, as reduced activity may result from use of leftover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

Do not add surfactant to the herbicide solution.

For Rope or Sponge Wick Applicators—Mix 1 gallon of this product in 2 gallons of water to prepare a 33 percent solution. Apply this solution to weeds listed in this section.

For Porous-Plastic Applicators—Solutions ranging from 33

APPLICATION EQUIPMENT



APPLICATION EQUIPMENT

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to 100 percent of this product in water may be used in porous-plastic wiper applicators.

When applied as recommended, this product CONTROLS the following weeds:

Corn, volunteer Panicum, Texas

Sicklepod Spanishneedles Starbur, bristly

Rye, common Shattercane

When applied as recommended, this product SUPPRESSES the following weeds:

Beggarweed, Florida Bermudagrass Dogbane, hemp Dogfennel Guineagrass Johnsongrass

Ragweed, common Ragweed, giant Smulgrass Sunflower Thistle, Canada Thistle, musk

Nightshade, silverleaf Pigweed, redroot

Milksveed

Vaseygrass Velvetleaf

7.5 Injection Systems

This product may be used in aerial or ground injection spray systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. Do not mix this product with the concentrate of other products when using injection systems.

7.6 CDA Equipment

The rate of this product applied per acre by vehicle-mounted CDA equipment must not be less than the amount recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 3 to 15 gallons of water per acre.

For the control of annual weeds with hand-held CDA units, apply a 20 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 mph (1 quart per acre). For the control of perennial weeds, apply a 20 to 40 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 mph (2 to 4 quarts per acre).

Controlled droplet application equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or desiruction may result.

8.0 CROPS (Alphabetical)

This section is organized alphabetically by crop category. There may be several labeled crops listed in a crop category.

Unless otherwise specified, applications may be made to control any weeds listed in the annual and perennial tables. Also refer to the "SELECTIVE EQUIPMENT" section.

For any crop not listed in this "CROPS" section, applications must be made at least 30 days prior to planting.

For broadcast postemergent treatments, do not harvest or feed treated vegetation for 8 weeks following application, unless otherwise specified.

When applying this product prior to transplanting crops into plastic mutch, residues may be removed from the plastic by 0.5 inch of water via sprinkler irrigation or natural rainfall.

8.1 Alfalfa, Clover and Other Forage Legumes

LABELED CROPS: Alfalla, clover, kudzu, lespedeza, lupin, sainfoin, trefoil, velvet bean, vetch, crown vetch, milk vetch

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TYPES OF APPLICATIONS: Preplant, preemergence, at planting, preharvest (alfalfa only), spot treatment (alfalfa and clover only), wiper applicators (alfalfa and clover only), renovation

Preplant, Preemergence and At-planting

USE INSTRUCTIONS: This product may be applied before, during or after planting crops listed in this section. Applications must be made prior to emergence of the crop.

PRECAUTIONS, RESTRICTIONS: Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

Preharvesi (Altalia only)

USE INSTRUCTIONS: This product may be used in declining alfalfa stands or any stand of alfalfa where crop destruction is acceptable. This application will severely injure or destroy the stand of alfalfa. This product will control annual and perennial weeds, including quackgrass, when applied prior to the harvest of alfalfa. The treated crop and weeds can be harvested and fed to livestock after 36 hours. Allow a minimum of 36 hours between application and harvest. Applications may be made at any time of the year. Make only one application to an existing stand of alfalfa per year. For control of quackgrass, apply in the spring, late summer or fall when quackgrass is actively growing. Treatments for quackgrass must be followed by deep tillage for complete control.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1 quart of this product per acre as a preharvest treatment. Do not use for attalta grown for seed, as a reduction in germination or vigor may occur.

Spot treatment or Wiper applications (Alfalia and Clover only)

USE INSTRUCTIONS: This product may be applied as a spot treatment in alfalfa or clover. This product may be applied with wiper applicators to control or suppress the weeds listed under "WIPER APPLICATORS" in the "SELECTIVE

EOUIPMENT* section of this label. Applications may be made in the same area at 30-day intervals.

PRECAUTIONS: RESTRICTIONS: For spot treatment and wiper applications, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

Renovation

USE INSTRUCTIONS: This product may be applied as a broadcast spray to existing stands of alfalfa, clover, and other labeled forage legumes. Labeled crops may be planted into the treated area.

PRECAUTIONS, RESTRICTIONS: Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

8.2 Asparagus

TYPES OF APPLICATIONS: Preplant, preemergence, spot treatment, postharvest

Preplant, Preemergence

USE INSTRUCTIONS: This product may be applied prior to emergence of asparagus.

PRECAUTIONS, RESTRICTIONS: Do not apply within a week before the first spears emerge.

Sont treatmen

USE INSTRUCTIONS: This product may be applied immediately after cutting, but prior to the emergence of new spears.

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. Do not harvest within 5 days of treatment.

Postharvest

USE INSTRUCTIONS: This product may be applied after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as a directed or shielded spray in order to avoid contact of the spray with lerns, stems or spears.

PRECAUTIONS, RESTRICTIONS: Direct contact of the spray with the asparagus may result in serious crop injury. Select and use recommended types of spray equipment for post-emergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.

8.3 Cereal Crops

LABELED CROPS: Barley, Buckwheat, Millet (Pearl, Proso), Oats, Rice, Rye, Triticale, Wheat (All)

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, spot treatment, post-harvest, preharvest (wheat only), wiper applicators (wheat only), red rice control prior to planting rice

Preplant, Preemergence and At-planting

USE INSTRUCTIONS: This product may be applied before, during or after planting of cereal crops. Applications must be made prior to emergence of the crop.

Soot freatment

USE INSTRUCTIONS: This product may be applied as a spot treatment in cereal crops. Apply this product before heading in small grains.

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10

percent of the total field area to be harvested. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

Postbarvest

USE INSTRUCTIONS: This product may be applied after harvest of cereal crops. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

PRECAUTIONS, RESTRICTIONS: For any crop not listed on this label, applications must be made at least 30 days prior to planting the next crop. Do not harvest or feed treated vegetation for 8 weeks following application.

Preharvest (wheat only)

USE INSTRUCTIONS: This product provides weed control when applied prior to harvest of wheat. Apply after the hard-dough stage of grain (30 percent or less grain moisture) and at least 7 days prior to harvest. Wheat stubble may be grazed immediately after harvest.

This product may be applied using either aerial or ground spray equipment. For ground applications, apply this product in 3 to 10 gallons of water per acre. For aerial applications, apply this product in 3 to 5 gallons of water per acre.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1 quart of this product per acre. Do not apply to wheat grown for seed, as a reduction in germination or vigor may occur.

Wiper applications (wheat only)

USE INSTRUCTIONS: Wiper applications may be used in wheat. To control common rye or cereal rye, apply after the weeds have headed and achieved maximum growth, when the rye is at least 6 inches above the wheat crop.

PRECAUTIONS, RESTRICTIONS: Allow at least 35 days between application and harvest. Do not use roller applicators.

CROPS



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Red Rice Control Prior to Planting Rice

USE INSTRUCTIONS: Apply 1.5 quarts of this product in 5 to 10 gallons of water per acre. Flush fields prior to application to obtain uniform germination and stand of red rice. Make application when the majority of the red rice plants are in the 2-leaf stage and no more than 4 inches tall. Red rice plants with less than 2 true leaves may be only partially controlled. Avoid spraying during low humidity conditions, as reduced control may result.

PRECAUTIONS, RESTRICTIONS: Do not treat rice fields or levees when the fields contain water. Do not reflood treated fields for 8 days following applications.

8.4 Conservation Reserve Program (CRP)

TYPES OF APPLICATIONS: Renovation (rotaling out of CRP), postemergence, site preparation, wiper

Rotating out of CRP, Site preparation

USE INSTRUCTIONS: This product may be used to prepare CRP land for crop production.

Postemergence, Wiper

USE INSTRUCTIONS: This product may be used to suppress competitive growth and seed production of undesirable vegetation in CRP acres. Such applications may be made with wiper application equipment or as a broadcast or spot treatment to dormant CRP grasses. For selective applications with broadcast spray equipment, apply 8 to 10 fluid ounces of this product per acre in early spring before desirable CRP grasses, such as crested and tall wheatgrass, break dormancy and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy.

PRECAUTIONS, RESTRICTIONS: Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant.

8.5 Corn

TYPES OF CORN: Field corn, seed corn, sweet corn and pop-

TYPES OF APPLICATIONS: Preplant, preemergence, atplanting, hooded sprayers, spot treatment, preharvest, postharvest

Preplant, Preemergence and At-Planting

USE INSTRUCTIONS: This product may be applied before, during or after planting corn. Applications must be made prior to emergence of the crop.

The following tank mixtures may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre.

LOROXTM **EXTRAZINE™** ATRAZINE MARKSMANTM **FRONTIER™ BANVELTM** MICRO-TECH® **GUARDSMAN™ BICEPTM** PARTNER® HARNESS® **BICEP II** BLADEXTM/CYANAZINE HARNESS XTRA PROWL™ SIMAZINE HARNESS XTRA 5.6L 8RDADSTRIKE™ SURPASŞ™ LARIAT® **BULLET®** SURPASS 100 LASSO®/ALACHLOP **DUALTM** LINEXTM TOPNOTCH™ DUAL II

For improved burndown, this product may be tank mixed with 2,4-D or dicamba.

Annual weeds—For difficult-to-control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broad-

leaf signalgrass up to 2 inches fall, and Pennsylvania smartweed up to 6 inches fall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches fall, and 2 to 3 pints when weeds are over 6 inches fall.

PRECAUTIONS, RESTRICTIONS: Applications of 2.4-D or dicamba must be made at least 7 days prior to planting corn.

Hooded Sprayers

USE INSTRUCTIONS: This product may be used through hooded sprayers for weed control between the rows of corn. Only hooded sprayers that completely enclose the spray pattern may be used.

When applying to corn that is grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows.

Follow these requirements:

- The spray hoods must be operated on the ground or skimming across the ground.
- Do not apply more than 1 quart of this product per acre per application.
- Corn must be at least 12 inches tall, measured without extending leaves.
- Leave at least an 8-inch untreated strip over the drill row. For example, if the crop row width is 38 inches, the maximum width of the spray hood should be 30 inches.
- Maximum tractor speed: 5 mph
- Maximum wind speed: 10 mph.
- Use low-drift nozzles

Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop. Do not

apply this product when the leaves of the crop are growing in direct contact with weeds to be treated. Droplets, mist, foam or splatter of the herbicide solution may contact the crop and cause discoloration, stunting or destruction.

PRECAUTIONS, RESTRICTIONS: Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Do not graze or feed corn forage or fodder following applications of this product through hooded sprayers. Do not apply more than 3 quarts of this product per acre per year for hooded sprayer applications.

Spot treatment

USE INSTRUCTIONS: For spot treatments, apply this product prior to silking of corn.

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

Preharvest

USE INSTRUCTIONS: Make applications at 35 percent grain moisture or less. Ensure that maximum kernel till is complete and the corn is physiologically mature (black layer formed). For ground applications, apply up to 3 quarts of this product per acre. For aerial applications, apply up to 1 quart of this product per acre.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and harvest. It is not recommended that corn grown for seed be treated because a reduction in germination or vigor may result.

Post-harvest

USE INSTRUCTIONS: This product may be applied after harvest of corn. Higher rates may be required for control of

PRECAUTIONS, RESTRICTIONS: Do not harvest or feed treated vegetation for 8 weeks following application.

8.6 Cotton

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, hooded sprayer, selective equipment, spot treatment, preharvest

Preplant, Preemergence, and At-planting

USE INSTRUCTIONS: This product may be applied before, during or after planting cotton. Applications must be made prior to emergence of the crop.

Hooded sprayer, Selective equipment

USE INSTRUCTIONS: This product may be applied through hooded sprayers, recirculating sprayers, shielded applicators or wiper applicators in cotton. Allow at least 7 days between application and harvest.

PRECAUTIONS, RESTRICTIONS: See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

Spot treatment

USE INSTRUCTIONS: For spot treatments, apply this product prior to boll opening of cotton.

PRECAUTIONS, RESTRICTIONS: Oo not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

Preharvest

USE INSTRUCTIONS: This product provides weed control

and cotton regrowth inhibition when applied prior to harvest of cotton. For weed control, apply at rates given in the annual and perennial tables. Apply 1 pint to 2 quarts of this product per acre for cotton regrowth inhibition. Allow a minimum of 7 days between application and harvest of cotton.

This product may be applied using either aerial or ground spray equipment. For ground applications, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre.

Apply after sufficient bolls have developed to produce the desired yield of cotton. Applications made prior to this time could affect maximum yield potential.

This product may be tank mixed with DEFTM 6, FolexTM, or PrepTM to provide additional enhancement of cotton leaf drop.

PRECAUTIONS, RESTRICTIONS: Do not feed or graze treated cotton torage or hay following preharvest applications. DO NOT APPLY MORE THAN 1 QUART OF THIS PRODUCT PER ACRE BY AIR. Do not apply more than 2 quarts of this product per acre by ground. Do not apply to cotton grown for seed, as a reduction in germination or vigor may occur.

8.7 Fallow Systems

TYPES OF APPLICATIONS: Chemical fallow and aid-to-tillage Chemical fallow

USE INSTRUCTIONS: This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. For any crop not listed on this label, applications must be made at least 30 days prior to planting. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in

fallow fields. Ground or aerial application equipment may be used. Tank mixtures with 2.4-0, dicamba, Tordon 22K, atrazine or cyanazine may be used.

Refer to the specific product labels for planting, cropping, crop rotation and other restrictions as well as precautionary statements of all products used in tank mixtures.

Aid-to-lillage

USE INSTRUCTIONS: This product may be used in conjunction with lillage practices in fallow systems or preplant to labeled crops to control downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 8 fluid ounces of this product in 3 to 10 gallons of water per acre. Make applications before weeds are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage.

PRECAUTIONS, RESTRICTIONS: Tank mixtures with residual herbicides may result in reduced performance.

8.8 Farmsteads

TYPES OF APPLICATIONS: General nonselective weed control, trim-and-edge, chemical mowing

General nonselective weed control, Trim-and-edge

USE INSTRUCTIONS: This product may be used to control annual weeds and perennial weeds which are found in any part of the farmstead, including building foundations, along and in tences, shelterbelts, and equipment storage areas.

Chemical mowing

USE INSTRUCTIONS: This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Apply this product at rate of 6 to 8 fluid ounces per acre. Use 8 fluid ounces of this product per acre when treat-

ing tall fescue, fine fescue, orchardgrass or quackgrass covers. Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass. Apply treatments in 10 to 20 gallons of spray solution per acre. Chemical mowing applications may be made along farm ditches and other parts of farmsteads.

PRECAUTIONS, RESTRICTIONS: Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

8.9 Grain Sorghum (Milo)

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, spot treatment, wiper applicators, hooded sprayers, pre-harvest, post-harvest

Preplant, Preemergence, At-planting

USE INSTRUCTIONS: This product may be applied before, during or after planting milo. Applications must be made prior to emergence of the crop.

The following tank mixtures may be applied before, during or after planting in conventional tiliage systems, into a cover crop, established sod or in previous crop residue.

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre.

ATRAZINE

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BICEP # BULLET

LASSO/ALACHLOR MICRO-TECH

DUAL II PARTNER

Annual weeds—For difficult-to-control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 5 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1 to 1.5 pints of this product per acre when

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weeds are less than 6 inches fall, and 2 to 3 pints when weeds are over 6 inches fall

Spot treatment and Wiper applications

USE INSTRUCTIONS: This product may be applied as a spot treatment in grain sorghum. Make spot treatments before heading of milo. This product may be applied with wiper applicators to control or suppress the weeds listed under "WIPER APPLICATORS" in the "SELECTIVE EQUIPMENT" section of this label.

PRECAUTIONS, RESTRICTIONS: For spot treatment, do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

For wiper applicators, allow at least 40 days between application and harvest. Oo not use roller applicators. Oo not reed or graze treated milo fodder. Do not ensite treated vegetation.

Hooded Sprayers

USE INSTRUCTIONS: This product may be used through hooded sprayers for weed control between the rows of milo. Only hooded sprayers that completely enclose the spray pattern may be used.

When applying to mile that is grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows.

Follow these requirements.

- The spray hoods must be operated on the ground or skimming across the ground.
- Do not apply more than 1 quart of this product per acre per application.
- Milo must be at least 12 inches tall, measured without extending leaves. Treat before milo sends tillers between the drill rows. If such tillers are contacted with the spray solution, the main plant may be killed.
- Leave at least an 8-inch untreated strip over the drill row. For example, if the crop row width is 38 inches, the maximum width of the spray hood should be 30 inches.
- Maximum tractor speed; 5 mph.
- Maximum wind speed: 10 mph.
- Use fow-drift nozztes.

Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop. Do not apply this product when the leaves of the crop are growing in direct contact with weeds to be treated. Droplets, mist, foam or splatter of the herbicide solution may contact the crop and cause discoloration, stunting or destruction.

PRECAUTIONS, RESTRICTIONS: Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the application. Do not graze or feed mild forage or fodder following applications of this product through hooded sprayers. Do not apply more than 3 quarts of this product per acre per year for hooded sprayer applications.

Preharves

USE INSTRUCTIONS: Make applications at 30 percent grain moisture or less.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 2 quarts of this product per acre. Allow a minimum of 7 days between application and harvest of sorghum. It is not recommended that sorghum grown for seed be treated, as a reduction in germination or vigor may occur.

Post-harvest

USE INSTRUCTIONS: This product may be applied after harvest of grain sorghum. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-0 or dicamba may be used.

This product may be applied to grain sorghum (milo) stubble following harvest to suppress or control regrowth. Apply 1 quart of this product per acre for control, or 1.5 pints of this product per acre for suppression.

PRECAUTIONS, RESTRICTIONS: Do not harvest or feed treated vegetation for 8 weeks following application.

8.10 Grass Seed Production

Site preparation

TYPES OF APPLICATIONS: Preplant, preemergence, renovation, site preparation, shielded sprayers, wiper applicators, spot treatments, creating rows in annual ryegrass

Preplant, Preemergence, Renovation

USE INSTRUCTIONS: This product may be applied before, during, or after planting or renovation of turf or torage grass areas grown for seed production. Applications MUST be made prior to the emergence of the crop to avoid crop injury. For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall applications provide best control.

PRECAUTIONS, RESTRICTIONS: Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical moving, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts.

Do not feed or graze treated areas for 8 weeks following application.

Shielded sprayers

USE INSTRUCTIONS: Apply 1-3 quarts of this product as a broadcast spray in 10 to 20 gallons of water per acre to control weeds in the rows. Uniform planting in straight rows aid in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by or through the protective shields.

PRECAUTIONS, RESTRICTIONS: Contact of this product in any manner to any vegetation to which treatment in not intended may cause damage. Such damage shall be the sole responsibility of the applicator.

Wiper Applications

PRECAUTIONS, RESTRICTIONS: Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators should be adjusted so that the wiper contact point is at least two (2) inches above the desirable vegetation. Weeds should be a minimum of six (6) inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when height of weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be negessary. Better results may be obtained if 2 applications are made in opposite directions.

Spot Treatments

USE INSTRUCTIONS: Use a 1-1.5 percent solution.

PRECAUTIONS, RESTRICTIONS: Apply this product prior to heading of grasses. Do not treat more than 10 percent of the total field to be harvested. The crop receiving the spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for the same reason.

CROPS

CROPS

Creating Rows in Annual Ayegrass

USE INSTRUCTIONS: Use 16-32 fluid ounces of this product per acre mixed with water. Use the higher rate when the ryegrass is greater than 6 inches tall. Best results are obtained when applications are made before the ryegrass reaches 6 inches in height.

PRECAUTIONS, RESTRICTIONS: Set nozzle heights to allow the establishment of the desired row spacing while preventing spray droplets, spray fines, or drift to contact the ryegrass plants not treated. Use of low pressure nozzles, or drop nozzles designed to target the application over a narrow hand are recommended.

Grower assumes all responsibility for crop losses from misapplication.

8.11 Pastures

TYPES OF PASTURES: Bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa and clover

TYPES OF APPLICATIONS: Spot treatment, wiper application, preplant, preemergence, pasture renovation

Spot treatment and Wiper application

USE INSTRUCTIONS: This product may be applied as a spot treatment or with wiper applicators in pastures. Applications may be made in the same area at 30-day intervals.

PRECAUTIONS, RESTRICTIONS: For spot treatment and wiper applications, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

Preplant, Preemergence and Pasture renovation

USE INSTRUCTIONS: This product may be applied prior to planting or emergence of forage grasses and legumes. In addition, this product may be used to control perennial pasture species listed on this label prior to re-planting.

PRECAUTIONS, RESTRICTIONS: Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

8.12 Rangelands

TYPES OF APPLICATIONS: Postemergence

USE INSTRUCTIONS: This product will control or suppress many annual weeds growing in perennial cool and warm season grass rangelands.

Preventing viable seed production is key to the successful control and invasion of annual grassy weeds in rangelands. Follow-up applications in sequential years should eliminate most of the viable seeds.

Grazing of treated areas should be delayed to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition.

PRECAUTIONS, RESTRICTIONS: Do not use ammonium sulfate when spraying rangeland grasses with this product. Do not make more than one application per year.

Postemergence

Apply 12-16 fluid ounces of this product to control or suppress many weeds, including downy brome, cheat grass, cereal rye and jointed goalgrass in rangelands. Apply when most mature brome plants are in early flower and before the plants including seedheads turn color. Allowing for secondary weed flushes to occur in the spring following rain events further depletes the seed reserve, and encourages perennial grass conversion on weedy sites. Fall applications are possible, and recommended where spring moisture is usually limited and fall germination allows for good weed growth.

Apply 16 fluid ounces when the medusahead has reached the 3-leaf stage. Delaying applications beyond this stage will result in reduced or unacceptable control. Fire may be useful in eliminating the thatch layer produced by slow decaying culms prior to application. Allow new growth to occur before spraying after a burn. Repeat applications in subsequent years may be necessary to eliminate the seedbank before reestablishing desirable perennial grasses in medusahead dominated rangelands.

Slight discoloration of the desirable grasses may occur, but they will regreen and regrow under moist soil conditions as effects of this product wear off.

8.13 Soybeans

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, spot treatment, preharvest, selective equipment, hooded sprayers:

Preplant, Preemergence and At-planting

USE INSTRUCTIONS: This product may be applied before, during or after planting soybeans. Applications must be made prior to emergence of the crop.

The following tank mixtures may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

CANOPYIM
COMMANDIM
DUAL
DUAL II
FRONTIER
FUSIONIM

GEMINITM

LASSO/ALACHLOR LINEX LOROX/LINURON LOROX PLUS MICRO-TECH PARTNER

PREVIEW™

PROWL
PURSUIT™
PURSUIT PLUS
SCEPTER™
SENCOR™ALEXONE™
SQUADRON™
TURBO™

For improved burndown, this product may be tank-mixed with 2,4-0 or 2,4-08. See the 2,4-D label for intervals between application and planting.

Annual weeds—For difficult-to-control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches tall, and 2 to 3 pints when weeds are over 6 inches tall.

Spot treatment

USE INSTRUCTIONS: For spot treatments, apply this product prior to initial pod set in soybeans.

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

Prehames

USE INSTRUCTIONS: This product provides weed control when applied prior to harvest of soybeans.

Apply at rates given in the annual, perennial tables. This product may be applied using either aerial or ground spray equipment. For ground applications, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre.

Apply after pods have set and lost all green color. Allow a minimum of 7 days between application and harvest of soybeans. Care should be taken to avoid excessive seed shatter loss due to ground application equipment.

PRECAUTIONS, RESTRICTIONS: Do not graze or harvest treated crop for livestock feed within 25 days of last preharvest application. DO NOT APPLY MORE THAN 6 QUARTS PER ACRE OF THIS PRODUCT FOR PREHARVEST APPLICA-

TIONS. DO NOT APPLY MORE THAN 1 QUART PER ACRE OF THIS PRODUCT BY AIR. Do not apply to soybeans grown for seed as a reduction in germination or vigor may occur.

Selective equipment

USE INSTRUCTIONS: This product may be applied through recirculating sprayers, shielded applicators, hooded sprayers, wiper applicators or sponge bars in soybeans. Allow at least 7 days between application and harvest.

PRECAUTIONS. RESTRICTIONS: See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

8.14 Sunflowers

TYPES OF APPLICATIONS: Preplant, preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting sunflowers. Applications must be made prior to emergence of the crop.

A tank mixture with Prowl may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1 quart of this product per acre for sunflowers. Make only one preplant or preemergent application per-year. Do not feed or graze sunflower forage following application of this product.

8.15 Tree and Vine Crops (General)

TYPES OF APPLICATIONS: General weed control, middles (between rows), strips (in rows), perennial grass suppression, selective equipment

NOTE: THIS SECTION GIVES GENERAL DIRECTIONS THAT APPLY TO ALL TREE FRUITS AND VINE CROPS. SEE THE INDIVIDUAL CROP SECTIONS FOR INSTRUCTIONS, PRE-HARVEST INTERVALS, PRECAUTIONS AND RESTRICTIONS FOR SPECIFIC CROPS.

General weed control

This product may be applied in middles, strips and for general weed control in established tree Iruit orchards, and vineyards. Apply at 1 pint to 5 quarts per acre. Repeat applications may be made up to a maximum of 10.6 quarts per acre per year. This product may also be used for site preparation prior to transplanting these crops. Allow a minimum of 3 days between application and transplanting. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and high-volume wands, lances, orchard guns or with wiper applicator equipment, except as directed.

Middles (between rows)

USE INSTRUCTIONS: This product will control or suppress annual and perennial weeds and ground covers growing between the rows of labeled tree and vine crops. If weeds are under drought stress, irrigate prior to application. Reduced control may result if weeds have been mowed prior to application.

A tank mixture of this product plus Goal 2XL may be used for annual weeds in middles between rows of tree fruits and vine crops. This mixture is recommended when weeds are stressed or growing in dense populations. 16 to 32 ounces per acre of this product plus 3 to 12 ounces per acre of Goal 2XL will control annual weeds with a maximum height or diameter of 6 inches, including crabgrass, hairy fleabane (Conyza bonariensis), common groundsel, junglerice, common lambsquarters, redroot pigweed, London rocket, common ryegrass, Shepherd's-purse, annual sowthistle, common cheeseweed (malva), filaree (suppression), horse-

weed/marestail (Conyza canadensis), stinging nettle and common purslane (suppression). 12 to 32 ounces per acre of this product plus 3 to 12 ounces per acre of Goal 2XL will control common cheeseweed (malva) with a maximum height or diameter of 3 inches.

Strips (in rows)

USE INSTRUCTIONS: This product may be applied in rows of tree or vine crops and may also be tank mixed with the following products:

DEVRINOL™ 50 DF PRINCEP™ CALIBER™ 90
DIREX™ 4L SIMAZINE 4L
GOAL 2XL SIMAZINE 80W
KARMEX™ DF SIM TROL™ 4L
KROVAR™ I SOLICAM™ 80 DF
KROVAR II SURFLAN™ AS
PROWL SURFLAN 75W

Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

Apply 1 pint to 5 quarts of this product per acre in these tank mixtures. Use rates at the higher end of the recommended rate range when weeds are stressed, growing in dense populations or are greater than 12 inches tall.

Perennial grass suppression

This product will suppress perennial grasses such as bahiagrass, bermudagrass, tall fescue, orchardgrass, Kentucky bluegrass, and quackgrass that are grown as ground covers in tree and vine crops.

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 8 fluid ounces of this product in 10 to 20 gallons of water per acre.

For suppression of Kentucky bluegrass covers, apply 6 fluid ounces of this product per acre. Do not add ammonium sulfate.

For best results, mow cool season grass covers in the spring to even their height and apply this product 3 to 4 days after mowing.

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 6 fluid ounces of this product in 10 to 25 gallons of water per acre. Apply 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 4 Iluid ounces of this product per acre, followed by an application of 2 to 4 iluid ounces per acre about 45 days later. Make no more than 2 applications per year.

Selective equipment

Shielded and wiper applicators may be used in tree crops and grapes. Refer to the individual crop sections for time interval between application and harvest.

GENERAL PRECAUTIONS/RESTRICTIONS: For all uses in this section.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT OR OTHER PARTS OF TREES AND VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

AVOID PAINTING CUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.

8.16 Tree Fruits

LABELED CROPS: Apple, Apricot, Cherry (Sweet, Sour). Nectarine, Peach, Pear, Plum/Prune (All)

TYPES OF APPLICATIONS: General weed control, middles (between rows of trees), strips (in row of trees), selective equipment

NOTE: FOR GENERAL USE DIRECTIONS, SEE THE "TREE AND VINE (GENERAL)" SECTION. THE FOLLOWING DIREC-TIONS ARE SPECIFIC TO TREE FRUITS.

Restrictions on application equipment

For cherries, any application equipment listed in this section may be used in all states.

Any application equipment listed in this section may be used in apricots, nectarines, peaches and plums/prunes growing in Colorado, Idaho, Kansas, North Dakota, Oklahoma, Dregon, Utah and Washington. In all other states use wiper equipment only.

For PEACHES, apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low-hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near trees which have been planted in the orchard for 2 or more years. EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 1 day between last application and harvest for apple and pear.

Allow a minimum of 17 days between last application and harvest for apricot, cherry, nectarine, peach, plum/prune.

8.17 Vegetable Crops

LABELED CROPS: Amaranth, Arriugula, Artichoke (Jerusalem), Beans (All), Beet greens, Garden beets, Broccoli (All), Brussels sprouts, Cabbage (All), Cabbage (Chinese), Cantaloupe, Cardoon, Cavalo Broccolo, Carrot, Cauliflower, Casaba melon, Celery, Celery (Chinese), Celeriac, Celtuce, Chard (Swiss), Chayote, Chervil, Chick peas, Chicory, Chrysanthemum, Collards, Corn, salad, Crenshaw melon, Cress, Cucumber, Dandelion, Dock (sorrel), Eggplant, Endive,

Fennel (florence), Garlic, Gherkin, Ginseng, Gourds, Ground cherry, Guar, Honeydew melon, Honey ball melon, Horseradish, Kale, Kohlrabi, Leek, Lentils, Lettuce, Mango meloń, Melons (All), Mizuna, Muskmelon, Mustard greens, Okra, Onion, Oriental radish, Parsley, Parsnips, Peas (All), Pepinos, Pepper (All), Persian melon, Potato (trish), Pumpkin, Purslane, Radish, Rape greens, Rhubarb, Rutabaga, Salsify, Shallot, Spinach (All), Mustard Spinach, Squash (Summer, Winter), Sugar beets, Sweet potato, Tomatillo, Tomato, Turnip, Watercress, Watermelon, Yams.

USE INSTRUCTIONS: This product may be applied prior to the emergence of direct seeded vegetables or prior to transplanting vegetables.

PRECAUTIONS, RESTRICTIONS: When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product, which could cause crop injury, from the plastic prior to transplanting. Residues can be removed by a single 0.5 inch application of water, either by natural rainfall or via a sprinkler system. Applications made at emergence will result in injury or death to emerged seedlings.

For the following crops, apply only prior to planting. Allow at least 3 days between application and planting of cantaloupe, casaba melon, crenshaw meion, cucumber, eggplant, gherkin, gourds, ground cherry, honeydew melon, honey ball melon, mango melon, melons (all), muskmelon, pepper (all), persian melon, pumpkin, squash (summer, winter), tomatillo, watercress, and watermelon.

Wiper applicators may be used in rutabagas. Allow at least 14 days between application and harvest.

8.18 Vine Crops

LABELEO CROPS: Grapes (raisin, table, wine), Kiwi Fruit

TYPES OF APPLICATIONS: General weed control, middles (between rows), strips (in row), selective equipment

NOTE: FOR GENERAL USE DIRECTIONS, SEE THE "TREE AND VINE (GENERAL)" SECTION. THE FOLLOWING DIRECTIONS ARE SPECIFIC TO VINE CROPS.

Applications should not be made when green shoots, canes or foliage are in the spray zone.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 14 days between last application and harvest.

9.0 ANNUAL WEEDS RATE TABLES (Alphabetically by Species)

Water carrier volumes of 3 to 10 gallons per acre for ground applications and 3 to 5 gallons per acre for aerial applications are recommended.

Apply to actively growing annual weeds.

Do not tank mix with soil residual herbicides when using these rates unless otherwise specified.

For weeds that have been moved, grazed or cut, allow regrowth to occur prior to treatment.

For those rates less than 48 fluid ounces per acre, this product may be used up to 48 fluid ounces per acre where heavy weed densities exist.

ANNUAL WEEDS RATE TABLE

Rate

Weed Species

(Fluid Ounces Per Acre)
12 16 24 32 48
Maximum Height/Length

	Maximum Height/Length					
8arleys of the same of the sam	12.5	1.5	Q 21 V	Ŋ÷ ⊊	-12	
Barnyardgrass	-	-	6"	12*	-	
Busines andres	567	2005	母歌	(55)	(a -)	
Bluegrass, bulbous	-	6"			-	
Elimentory and the	Ъ.	(FI)	1.10		100	
Buckwheat, wild?	•	-	1"	2*	-	
Emiliani de la companya de la compa	de Es	(#S)	-1 / 2	12.	C	
Cheat ²	٠.,	6"		-	-	
Chenter	4-		222	18		
Cocklebur		12"	•	-	•	
Donald States	34.2.3	\$ (*,)	V/5	127	1.6	
Crabgrass	<u> </u>	6"	12*		-	
HVariatio alloi 1919	grade.	1800	9.3			
Fall panicum	•	12"	•	-	-	
विकास जासम्बद्धाः	$\gamma V_{ij} U_{ij}$	推變力	7.574	3.00	25	
Field pennycress	•	6"				
HARRIES STORY SECTION OF THE PARTY OF THE PA	797, se	4,343,4		و المالية	400	
Fleabane, hairy	-	6*	-	•	-	
(Conyza bonariensis)						
HOLLOWING				198	A.Est	
Foxtail, green	6"	12"		•	-	
there death death, tempor			13%	A4 7	100	
Goalgrass, jointed	-	6"		-		
सिर्वामित्रके अनुनिविद्याः	7.4			2.50%	1409	
Henbil		6"		•	-	
FOR TARREST VEGERAL						
Thomas is named as						
Johnsongrass, seedling	-	12"	•	-		
Remark		:		100		

ANNUAL WEEDS RATE TABLE

ANNUAL WEEDS RATE TABLE

Rate
(Fluid Ounces Per Acre)
Weed Species 12 15 24 32 48
Maximum Haight/Length

	Maximum Height/Length					
Lambsquarters		6"		-	-	
TOTAL STREET	3/2	1		1248	1-0	
London rocket	-	8*			•	
Mildermentelosses		(6.27)	425	100	43	
Morningglory (Ipomoea spp.)	-	2"	-		-	
Musicipablic Least	(92.) <u>.</u>	اوطياء		铁铁		
Mustard, tansy	<u>6</u> " .	•	-		-	
Mastrak Dander	(h- :	(3)	44	570°	(C)	
Mustard, wild	6"	•	-	-	-	
DOWNERS OF STREET	3	\$200	ALC: N	33		
Rya, volunteer/cereal?	-	6 "	18"			
Rygolas slidentes (A. F. A.	î a kipî		1	6.7%	2	
Sandbur, field		6*	12"	-		
NEW TENNESS OF THE PARTY OF THE	12:	(#V	5	半绝		
Shepherd's-purse	-	6*	-		-	
Sovinside Transport	$\mathbf{x}_{i} =$	Mg of	$\theta \gg R$	(4)	30%	
Spurge, annual	-	6*	•	-		
Singardes contracts		1	ál/ct	SÉL	壁鱼	
Texas panicum	-	12"			•	
Server anseamanuality	14.	41.1	100	24	1.4	
Wheat?		6*	18*	-		
Wife 0218	47.	ile es	t city	263	200	
Witchgrass	-	-	12"	-	-	

For control of Downy brome in no-till systems, use 24 fluid ounces per acre.

Use 32 ounces per acre to control 2- to 4-leaf wild buckwheat. For improved control of wild buckwheat over 2 inches in size, use sequential treatments of 32 ounces followed by 32 ounces of this product or refer to the tank mix section of this tabel

*Do not treat kochia in the puffball stage.

9.1 Annual Weeds—Tank Mixtures with 2,4-D, Banvel or Tordon 22K

12 to 24 fluid ounces of this product plus 0.25 pound a.i. of Banvel or 0.5 pound a.i. of 2,4-0 or 1 to 2 ounces of Tordon 22K per acre will control the following weeds with the maximum height or length indicated: 6" — prickly lettuce, marestail/horseweed (Conyza canadensis), morninggtory (Ipomoea spp.), kochia (Banvel only); wild buckwheal (Tordon 22K only); 12" — cocklebur, lambsquarters, pigweed, Russian thistie.

12 Huid ounces of this product plus 0.25 pound a.i. of Banvel or 0.5 pound a.i. of 2,4-D per acre will control toxtail up to 18".

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if Banvel or Tordon 22K is applied within 45 days of planting.

9.2 Annual Weeds—Tank Mixtures with Atrazine or Bladex for Fallow and Reduced Tillage Systems

For use only in Colorado, Kansas; Nebraska, Oklahoma, Oregon, South Dakota, and Washington. In Oregon and Washington, do not exceed 1 pound atrazine per acre.

BLE

² Performance is better if application is made before this weed reaches the boot stage of growth.

³ Use 24 ounces per acre of this product to control wild buckwheat in the cotyledon to 2-leaf stage.

М

16 ounces of this product plus 1 to 2 pounds of atrazine or 2.4 to 4 pounds of cyanazine per acre will control the following weeds: Barnyardgrass (requires 26 ounces for control). Downy brome, Green foxtail, Lambsquarters, Prickly lettuce (Lactuca serriola). Tansy mustard, Pigweed, Field sandbur (Cenchrus spp.). Stinkgrass, Russian thistle (Salsola kali), Volunteer Wheat, Witchgrass (Panicum capillare) and Kochia (add 4 fluid ounces Banvel for control).

10.0 PERENNIAL WEEDS RATE TABLE (Alphabetically by Species)

Apply to actively growing perennial weeds.

NOTE: If weeds have been mowed or tilled, do not treat until plants have resumed active growth and have reached the recommended stages.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

Unless otherwise stated, allow 7 or more days after application before tillage.

Best results are obtained when soil moisture is adequate for active weed growth.

Make applications after the last hay cutting in the fall. Allow allafta to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil treeze-up.

Binoweed field \$ 0.5 has \$20 has a 2%

Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth.

For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D or 0.25 pounds a.i. of Banvel in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Apply by air in fallow and reduced tillage systems only. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length.

Biometrices - 1981 / 2007 / 2007 / 2007

Apply 4 to 5 quarts of this product per acre. Apply when plants are at or beyond full bloom. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.

Congress shoots and the second

Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.

administration of the contraction of the contractio

In annual cropping systems apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. On farmstead sites or areas where annual tillage (nottill) is not practiced, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre.

For best results, apply when most plants have reached the boot-tohead stage of growth or in the fall prior to frost. Allow 7 or more days after application before tillage. Do not tank mix with residual herbicides when using the 1 quart per acre rate.

For burndown of Johnsongrass, apply 1 pint of this product in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before titlace.

Weed Species

Rate Water (DT/A) Volume (GPA)

Hand-Keld % Solution

Spot treatment (partial control or suppression)—Apply a 1 percent solution of this product when Johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.

Nightshader

Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing trost.

Quackgrass 220

In annual cropping systems, or in pastures and sods followed by deep tillage: Apply 1 quart of this product in 3 to 10 gallons of water per acre. For 10 to 40 gallons of water per acre, apply 2 quarts of this product. Do not tank mix with residual herbicides when using the 1 quart rate. Spray when quackgrass is 6 to 8 inches in height. Do not till between harvest and fall-applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, use a moldboard plow for best results.

In pastures, sods or larmstead sites where deep tillage does not follow application: Apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre when the quackgrass is greater than 8 inches tall.

Ryenassaperennal ALEX AS 407

In annual cropping systems apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. On farmstead sites or areas where annual tiltage (notill) is not practiced, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre.

For best results, apply when most plants have reached the boot-tohead stage of growth or in the fall prior to frost. Do not tank-mix with residual herbicides when using the 1 quart per acre rate.

For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.i. 2.4-D in 3 to 10 gallons of water per acre in the late summer or fall, 11 mowing has occurred prior to treatment, apply when most of the plants are 12 inches fall.

Thistle, Canada 4 -2-3 3-40

Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.

For suppression, apply 1 quart of this product in 3 to 10 gallons of water per acre in the late summer or fall after harvest, moving or tillage. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.

Wheatgrass western 2-3 12-3-40 2%

For best results, apply when most plants have reached the boot-to-head stage of growth.

11.0 LIMIT OF WARRANTY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set torth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO DTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF IMPLIED WARRANTY OF IMPLIED WARRANTY OF ITTNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to. incompatibility with products other than those sel forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company's stewardship requirements and with express written permission from this Company.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE OUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY, IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL. CONSEQUENTIAL OR SPECIAL DAMAGES.

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EPA Reg. No. 524-475



In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

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21138X3-1/53



OODEST-OOTSE

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The complete broad spectrum postemergence professional herbicide for industrial, turf and ornamental weed control.

Complete Directions for Use

EPA Reg. No. 524-475

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION IS LIKELY TO RESULT.

Roundup Pro is a registered trademark and Monsanto and the Vine symbol are trademarks of Monsanto Company.

2000 1 2 2 26/53

Antes de usar ene producto, ed la etiqueta en su totalidad. Uselo solamente de acuerdo con las instrucciones de la eti-

El uso de este producto de cualquier manera contraria a las indicaciones contenidas en este librato se considera una violación de las leyes federales.

No todos los productos recomendados en esta etiqueta han sido registrados para su uso en California. Verifique el estado de registro de cada producto en California antes de utilizarlo. Antes de comprar o usar el producto, lea "LIMITES EN LA GARANTIA Y EN LA RESPONSABILIDAD" en la última sección de la etiqueta. Si las condiciones son inaceptables para usted, devuelva el producto inmediatamente sin abrir el recipiente.

ESTE ES UN PRODUCTO PARA USARSE TAL Y COMO ESTA PREPARADO. MONSANTO NO LO HA DISEÑADO NI LO HA REGISTRADO PARA QUE SEA REFORMULADO. VEA LA ETI-QUETA DEL ENVASE INDIVIDUAL PARA ENTERARSE DE LAS LIMITACIONES DE REEMPAQUE.

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1.0 INGREDIENTES

•		
	REDIENTE ACTIVO:	
*Gli	ifosato, N-(fostonometil) glicina, en forma	a de
Sυ	sal de isopropilamina	
ING	REDIENTES INERTES	
(in	icluyendo surfactante):	59.0%
	•	100,0%

*Contiene 480 gramos por litro o 4 libras por galón amor-cano del ingrediente activo glifosato, en forma de su sal de isopropilamína. Equivalente a 356 gramos por litro o 3 libras por galón americano del ácido, glifosato.

TELEFONOS IMPORTANTES

Este producto está protegido por la patente de los Estados Unidos Nº 4,405,531 y por la patente de los Estados Unidos Nº 5,703,015. Otras patentes están pendientes. No se han otorgado licencias bajo ninguna patente que no sea de los Estados Unidos.

2.0 TELEFONOS IMPORTANTES

 PARA INFORMACION SOBRE: ELYPRODUCTO O AYUDA PARA UTILIZAR ESTE PRODUCTO, LLAME GRATIS AL

11-800-332-31111

2. EN CASO DE QUE SE PRESENTE UNA EMERGENCIA RELACIONADA CON ESTE PRODUCTO, O PARA OBTENER: AYUDA: MEDICA: LLAME POR COBRAR A CUALQUIER HORA DEL DÍA O DE LA NOCHE, AL TELE-FONO

[(314) 694 4000]

3.0 ADVERTENCIAS

3.1 Riesgos para seres humanos y animales domésticos

Manténgase fuera del alcance de los niños.

¡CUIDADO!

IRRITA LOS OJOS.

Evite el contacto con los ojos y con la ropa.

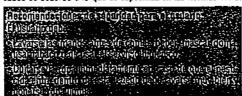
PRIMEROS AUXILIOS: SI ENTRA EN LOS OJOS, lave los ojos con abundante agua. Obtenga atención médica si la irritación continúa.

ANIMALES DOMESTICOS: Este producto se considera relativamente no tóxico para los perros y otros animales domésticos; sin embargo, la ingestión de este producto o de grandes cantidades de vegetación recientemente tratada puede resultar en una irritación gastrointestinal temporal (vómito, diarrea, cólico, etc.). Si se observan dichos sintomas, dé al animal suficiente cantidad de líquidos para evitar la deshidratación. Si los sintomas continúan por más de 24 horas, llame al veterinario.

Equipo de protección personal

Las personas que aplican o manejan este producto deben usar camisas de manga larga, así como pantalones largos, zapatos y medias. Siga las instrucciones del fabricante para limpiar y mantener el Equipo de Protección Personal (PPE). En caso de no tener dichas instrucciones para piezas lavables, use detergente y agua muy caliente. Mantenga y lave el equipo de protección personal separado de las demás piezas a lavarse.

En los casos en los cuales el personal encargado de manejar el producto lo hace en ambientes cerrados, cabinas cerradas o aviones, de manera tal que se cumplan los requisitos listados en "Worker Protection Standard (WPS) for agricultural pesticides" (Normas para la Protección de los Trabajadores que trabajan con pesticidas usados en la agricultura) [40 CFR 170.240 (d) [4-6]], los requisitos para el equipo de protección personal del trabajador pueden ser reducidos o modificados de acuerdo a lo que se especifica en las normas WPS.



ADVERTENCIAS

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3.2 Riesgos al medio ambiente

No aplique directamente al agua, en áreas donde el agua superficial esté presente o en áreas donde haya mareas altas y bajas por debajo del nivel medio de mareas altas. No contamine el agua cuando deseche el agua con la cual lavó el equipo.

3.3 Riesgos de orden físico o químico

Para mezclar, almacenar y aplicar la solución de este producto, se deben usar solamente recipientes de acero inoxidable, aluminio, fibra de vidrio, plástico o recipientes de acero recubiertos internamente con plástico.

NO MEZCLE, ALMACENE O APLIQUE ESTE PRODUCTO O SUS SOLUCIONES PARA ROCIAR EN RECIPIENTES O TANQUES ROCIADDRES DE ACERO GALVANIZADO O DE ACERO
NO RECUBIERTO (EXCEPTO SI ES ACERO (NOXIOABLE).
Este producto o la solución para rociar reaccionan con el
material de dichos recipientes y tanques, lo cual produce
hidrógeno, que puede formar una mezcia de gases altamente
combustibles. Si esta mezcia de gases entra en contacto con
lamas, chispas, el soplete de un soldador, un cigarrillo
encendido o cualquier otra fuente de encendido, puede inilamarse o explotar y causar heridas graves a personas.

INSTRUCCIONES PARA EL USO

El uso de este producto de cualquier manera que sea inconsistente con las instrucciones dadas en la etiqueta es una violación de las leyes federales. No aptique este producto de alguna manera que entre en contacto con los trabajadores u otras personas, ya sea directamente o por medio de alguna corriente de aire. Solamente las personas que los manipulen

y que usen equipo protector podrán estar en el área durante su aplicación. Para verificar requisitos específicos de su tribu o estado, consulte con la agencia responsable de la regulación del uso de pesticidas.

Requisitos para el uso en la agricultura use este producto siguiendo estrictamente las instrucciones de la etiqueta y de acuerdo con "Worker Protection Standard". 40 CFR sección 170 Estas normas contienen los requisitos para proteger à los trabajadores agricolas en naciendas bosques, viveros e internaderos, así como a quiellos trabajadores que manejan pesticidas usados en la agricultura. Las normas contienen los requisitos para entrenar, descontaminar para dar aviso y para asistencia de emergencia. También contienen instrucciones, específicas y, excepciones que tienen que ver con el contenido de esta etiqueta en lo relacionado con el Equipo para la Protección Personal (PPE) et intervalos de entrada restringida? Los requisitos mencionados en esta sección se aplican unicamente allos usos de este producto que estan regulados, por las Normas para la Protección de los trabajadores (WPS).

No entre di permitar la entrada de personal, al area tratada cuanta el intervalo de emergan estingida el intervalo de entrada restringida el entrada de lineraldo de emergan estingida el entrada de lineraldo de emergan estingida el entrada de lineraldo de emergan estingida esta el manado el intervalo de entradas restringidas las áreas que haya leminado el intervalo de entradas restringidas alas áreas que haya esta para sido tratada, como plantas uerra o apua se debe usar coverals, quantes impermeables, apados y calcetines; a

Requisitos para usos no agricolas (Los) requisitos en esta sección, son para los usos de leste producto que NO están a úblertos por WPS (40 CFR Sección 170) para el uso de pesticidas en la agricultura (Las regulaciones del WPS se apican cuando el producto se susa para obtener productos agricolas en haciendas obsques, viveros e invernaderos

ALMACENAMIENTO Y DESECHO

Mantenga a las personas y a los animales domésticos luera del área tratada hasta que la solución rociada se haya secado completamente para evitar que este producto sea transferido a la vegetación deseable

4.0 ALMACENAMIENTO Y DESECHO

Cuando almacene o deseche el producto no contamine el agua, los productos alimenticios, el alimento para animales o las semillas.

Lea la etiqueta en el recipiente para obtener las instrucciones para ALMACENAMIENTO Y DESECHO.

5.0 INFORMACION GENERAL

Descripción del producto: Este producto es un herbicida sistémico sin actividad residual sobre el suelo. Controla con amplia efectividad muchas malezas anuales, malezas perennes, matorrales teñosos y árboles. Es un líquido soluble en agua y contiene surfactante por lo que no es necesario ni recomendable usar surfactante adicional.

Consecuencias para los afrededores: Cuando este producto entra en contacto con el suelo, se adhiere a las particulas del suelo. Cuando es usado de acuerdo con las instrucciones de la etiqueta, una vez que este producto queda adherido al suelo no está disponible para su absorbción por parte de las plantas y no dañará la vegetación ubicada fuera del tugar del tratamiento cuyas raíces crezcan en dicha área o si el suelo es transportado a otro lugar. La gran afinidad de este producto con las particulas del suelo evitan la lixiviación de aste producto fuera del perfil del suelo y su entrada en las aguas subterráneas. La afinidad entre este producto y las partículas del suelo permanecen hasta que este producto se degrada, el cual es principalmente un proceso de degradación biológica que es llevado a cabo por la microflora del suelo bajo condiciones aeróbicas y anaeróbicas.

Aparición de los sintomas: Este producto se mueve dentro de la planta desde el punto de aplicación sobre el foltaje, hasta las raices. Los efectos visibles en la mayor parte de las malezas anuales se pueden apreciar entre los 2 ó 4 días después de la aplicación, pero en la mayoría de las malezas perennes, los efectos no se ven hasta después de 7 días o más. El frío extremo o el cielo muy nublado después de la aplicación pueden retardar la actividad del producto y hacer que el efecto visual se retarde. Los efectos visibles incluyen que la planta se marchite y se vuelva amanilla en forma gradual, hasta que la parte exterior de ésta se torne completamente color café; mientras tanto, las partes de la planta que están bajo tierra se deterioran completamente.

Modo de acción en las plantas: El ingrediente activo de este producto inhibe una enzima hallada sólo en las plantas que es esencial para la formación de aminoácidos específicos.

Prácticas culturates: Se podrá observar una reducción en el efecto si se aplica el producto a malezas anuales o perennes que hayan sido segadas, que hayan servido de alimento para animales o hayan sido cortadas, y que no hubiesen crecido nuevamente hasta el nivel recomendado para el tratamiento.

Resistencia a la Ituvia: La Ituvia torrencial poco después de la aplicación lavará el producto del follaje y se requerirá una nueva aplicación para obtener un control adecuado.

Sin actividad sobre el suelo: Las malezas deben haber emergido en el momento de la aplicación para poder ser controladas por este producto. Las malezas que germinen de semillas después de la aplicación no serán controladas. Las plantas no emergidas con rizomas o raíces subterráneas de malezas perennes no conectadas no se verán atectadas por el herbicida.

Volatilidad: Roundup Pro herbicida no es volátil. Por lo tanto, no puede dispersarse en forma de vapor después de su aplicación y, por ende, no afecta la vegetación de las cercanías.

Toxicología: En general, no se prevee que la exposición a los

INFORMACION GENERAL





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INFORMACION GENERAL

trabajadores y otros aplicadores presente mayores riesgos en base a los resultados de los estudios sobre toxicidad a corto plazo. Se ha estudiado a fondo el glifosato y se ha determinado que no produce cáncer ni tiene otros efectos adversos a largo plazo para la salud.

Mezclas de langue: Este producto no proporciona control residual de malezas. Para lograr un control residual subsecuente, utilice un herbicida que esté aprobado en la etiqueta.

Lea y siga cuidadosamente todas las precauciones indicadas y toda la información que aparezca en las etiquetas de los herbicidas que use. Uselos según las instrucciones, más restrictivas de la etiqueta de cada producto usado en la mezcla

El comprador y todos los usuarios son responsables por todas las pérdidas o daños que resulten del uso o manejo de las mezclas de este producto con herbicidas u otros materiales que no estén expresamente recomendados en este libreto. La mezcla de este producto con herbicidas u otros materiales que no estén recomendados en este libreto puede reducir la eficacia de este producto.

Cantidad máxima de uso anual: El total combinado de todos los tratamientos no debe superar los 10.6 cuartos de galón de este producto por acre y por año.

ATENCION

EVITE EL CONTACTO DEL HERBICIDA CON EL FOLLAJE, TALLOS VERDES, RAICES NO LEÑOSAS EXPUESTAS O FRUTOS EXPUESTOS DE LAS COSECHAS, PLANTAS Y ARBOLES DESEABLES. EN CASO CONTRARIO ES PROBABLE QUE SUFRAN GRAVES DAÑOS O SEAN DESTRUIDOS TOTALMENTE.

EVITE EL ACARRREO. CUANDO EL PRODUCTO SE APLIQUE, SE DEBE TENER MUCHO CUIDADO PARA PRE-VENIR EL DAÑO A PLANTAS Y CULTIVOS DESEABLES.

No permita que la solución del herbicida se nebulice, gotee, sea acarreada o salpique sobre la vegetación deseable. Una cantidad pequeña puede ser suficiente para causar daños graves o destruir las-cosechas, plantas u otras áreas que no se desea tratar. La probabilidad de que ocurran daños por el uso de este producto aumenta cuando hay muchas rálagas de viento, a medida que aumenta la velocidad del viento, cuando la velocidad del viento cambia constantemente o cuando existen otras condiciones meteorológicas que favorecen la dispersión del rociado. Cuando se esté aplicando el producto con un rociador, evite la combinación de presiones y tipos de boquilla que puedan dar como resultado salpicaduras o particulas finas (niebla), que tienen muchas probabilidades de que el producto sea acarreado. EVITE LA APLICACION A ALTA VELOCIDAD O PRESION EXPESIVAS.

NDTA: El uso de este producto de cualquier manera contraria a las indicaciones contenidas en este libreto, puede resultar en tesiones a personas, animales o cosechas o pueden ocurrir otras consecuencias no deseadas. Mantenga los recipientes bien cerrados para evitar derramamientos y contaminación.

6.0 MEZCLA

 Limple las piezas del rociador inmediatamente después de su utilización lavándolas bien con agua.

NOTA: PUEDE OCURRIR UNA DISMINUCION DE LOS RESULTADOS SI SE UTILIZA AGUA QUE CONTENGA TIERRA, TAL COMO AGUA CON BARRO VISIBLE O AGUA DE CHARCAS O ACEQUIAS QUE NO ESTE CLARA. n sees seekkisisise.

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MEZCL

6.1 Mezcla con agua

Este producto se mezcla facilmente con agua. La solución para rociar se debe mezclar de la siguiente manera: ponga la cantidad correcta de agua en el tanque en el cual se va a preparar la mezcla. Agregue la cantidad necesaria de este producto cuando ya está cerca de completarse el llenado con agua y mezcle bien. Tenga cuidado de que el liquido no regrese al recipiente original. Use dispositivos aprobados para evitar que el líquido regrese al recipiente original cuando así lo exijan las reglamentaciones estatales o locales. Es posible que durante la mezcla y rociado, la solución produzca espuma. Para evitar o minimizar la formación de espuma, evite el uso de agitadores mecánicos, cierre las tuberías de derivación y de retorno en el fondo del tanque, y si es necesario, use compuestos aprobados para evitar la formación de espuma o para eliminar la espuma ya formada.

6.2 Procedimiento para mezclas de tanque

Cuando haga mezclas de tanque, lea y siga cuidadosamente las instrucciones de la etiqueta, las precauciones y toda la información contenida en las etiquetas de todos los productos utilizados. Agregue el producto al tanque según las instrucciones de la etiqueta. Agite continuamente y agregue la cantidad recomendada de este producto.

Agite continuamente hasta usar totalmente el contenido del tanque. Si se deja que la mezcla para rociar se asiente, agite bien para que la mezcla vuelva a estar en suspensión antes de continuar con el rociado.

A fin de minimizar la tormación de espuma, mantenga las luberías de retorno lo más cerca del fondo del tanque. El tamaño del cernidor en la boquilla o de los cernidores en las tuberías no debe ser menor al número 50.

La compatibilidad o no del agua con la mezcla que viene en tanque, provisto de etiqueta, se debe comprobar siempre mezclando pequeñas cantidades proporcionales con anticipación

Vea la sección "MEZCLAS DE TANQUE" de "INFORMACION GENERAL" para las precauciones adicionales.

6.3 Mezcla para rociadores de mano o mochila de espalda.

Prépare la cantidad deseada de la solución para rociar, mezclando las proporciones de este producto con agua, según se muestra en la siguiente tabla:

Solución para rociar

Volumen deseado	4.7 /E 3//% (Can 1%	idad de 178%	Roundu 2%	o PRO= 5%	10%52
1 gal	35 OZ	11/3 OZ	2 oz	235 02	6½ oz	13 oz
25 gal	1 pt	1 qt	11/2 qt	2 qt	5 qt	10 qt
100 gal	2 qt	1 gal	1½ gal	2 gal	5 gal	10 gal
	7.5	cuchara	ias ≘\1.o	nza fluio	ai	

Cuando se usen rociadores tipo mochila, o para bombeo, se recomienda que este producto se mezcle con agua en un recipiente grande. Llene el rociador con la solución ya lista.

6.4 Colorantes o tinturas

A este producto se le pueden agregar colorantes o tinturas para marcar, que sean aprobados para uso agrícola. Los colorantes o tinturas que se agreguen a este producto, pueden reducir su eficacia, especialmente cuando la solución no es muy concentrada. Para usar los colorantes y tinturas siga las instrucciones del fabricante.

7.0 EQUIPOS Y TECNICAS PARA LA APLICACION

No use ningún sistema de irrigación para aplicar este producto.

APLIQUE ESTAS SOLUCIONES PARA ROCIAR UTILIZANDO EQUIPOS DEBIDAMENTE MANTENIDOS Y CALIBRADOS QUE SEAN CAPACES DE ROCIAR EL VOLUMEN DESEADO.

7.1 Equipo aéreo

NO APLIQUE ESTE PRODUCTO CON EQUIPOS AEREOS EXCEPTO BAJO LAS CONDICIONES QUE SE ESPECIFICAN EN ESTE LIBRETO.

PARA LA APLICACION AEREA EN CALIFORNIA, CONSULTE EL SUPLEMENTO FEDERAL PARA APLICACIONES AEREAS EN DICHO ESTADO, PARA CONOCER LAS INSTRUCCIONES, LIMITACIONES Y REQUISITOS ESPECIFICOS. En California, no puede aplicarse este producto desde el aire cuando está en mezclas de lanque con BanvelTM o 2,4-0.

EVITE EL ACARREO — NO APLIQUE EN CONDICIONES DE INVERSION DE LAS CAPAS DE AIRE FRIO Y CALIENTE A POCA ALTURA, CUANDO HAY VIENTOS INTENSOS O BAJO CUALQUIER OTRA CONDICION QUE FAVOREZCA EL ACARREO. ES PROBABLE QUE EL ACARREO CAUSE DAÑOS A LA VEGETACIÓN PARA LA CUAL EL TRATAMIENTO NO ESTABA DIRIGIDO. PARA EVITAR DAÑAR LA VEGETACIÓN ADYACENTE QUE NO SE DESEA DESTRUIR, SE ACONSEJA DEJAR ZONAS DE AMORTIGUACIÓN ENTRE LA SUPERFICIE A TRATARSE Y LA QUE CONTIENE VEGETACIÓN QUE SE QUIERE MANTENER.

Evite la aplicación directa sobre agua.

Use las proporciones recomendadas de este producto con 3 a 25 galones de aqua por acre.

El rociado grueso tiene menos tendencia al acarreo a zonas que no se quieren tratar; por consiguiente, no use boquillas que rocian con gotas demasiado finas. No dirija las boquillas hacia adelante contra el viento y no aumente el volumen del rociado mediante el aumento de presión en las boquillas.

Se pueden usar aditivos para controlar el acarreo. Cuando se use este tipo de aditivos, lea y siga cuidadosamente las precauciones, así como toda la información adicional que aparezca en la etiqueta del aditivo.

Asegürese de que la aplicación sea uniforme — A fin de evitar que queden áreas sin tratar, que la aplicación no sea uniforme o que las aplicaciones se traslapen, se deben usar marcadores adecuados.

EL CONTACTO PROLONGADO DE ESTE PRODUCTO CON PARTES DE ACERO QUE NO ESTA RECUBIERTO CON ALGUN TIPO DE PROTECCION, PUEDE DAR COMO RESULTADO LA CORROSION Y POSIBLEMENTE QUE LAS PARTES FALLEN. Es posible prevenir la corrosión recubriendo las partes con pintura orgánica, que cumpla con las especificaciones aero-espaciales MIL-C-38413. Al final de cada dia de trabajo, para evitar la corrosión de las partes expuestas, lave muy bien el avión a fin de remover los residuos de este producto que se acumulan durante el rociado o por derramamientos. Las partes del tren de aterrizaje son extremadamente susceptibles.

7.2 Equipo de aplicación terrestre

Use las proporciones recomendadas de este producto con 3 a 40 galones de agua por acre para rociar de manera diseminada, a menos que se indique de otra manera en este libreto. A medida que la densidad de las malezas aumenta, el volumen de rociado se debe aumentar también para conseguir una cobertura completa, pero siempre dentro de los limites recomendados. A fin de evitar un rociado muy fino, seleccione la boquilla cuidadosamente. Para obtener

EQUIPOS PARA LA APLICACION

rociado se distribuyan imilormemente. boquillas tipo abanico plano. Azegúrese de que las gotas del

namulov 7.3 Equipo de mano y de alto

ciadores gruesos solamente. el punto en que el producto gotes de la vegetación. Use rotura del foliaje debe ser completa y uniforme. No rocie hasta controlar. En aplicaciones de rociado para mojar, la cober-Aplique el producto al follaje de la vegetación que se desea

malezas de hoja ancha. de semillas en la hierba o la formación de brotes en las una solución del 1 por ciento. Aplique antes de la formáción de altura, o saivo que se especifique lo contrario, emplee extension. Para las malezas anuales de más de 6 pulgadas les materes de menos de 6 pulgadas de atlura o longitud de aplique una solución del 0,5 por ciento de este producto a "MALEZAS ANDALES" de "MALEZAS CONTROLADAS" Para el control de las malezas listadas en la sección de

hemo dogbane, milloweed y Canada thistle. controlar, tales como bermudagrass, dock, field bindweed, bot ciento en las plantas perennes que son más dificiles de Para obtener el mejor resultado, emplee una solución del 2

tollaje sea tupido y denso o cuando haya multiples brotes. de matorrales leñosos y árboles grandes o altos, cuando el tet nua copagnia adecidada de rociado, rocie ambos lados importante cubrir la mitad superior de la planta. Para asegupor ciento del follaje. Para obtener el mejor resultado, es todisdo debe set uniforme cubriendo como minimo el 50 perennes o matorrales leñosos y árboles. La cobertura de para el control total o parcial de las malezas anuales y emplee una solución de este producto del 5 si 10 por ciento Para las aplicaciones de rociado dirigido de bajo volumen,

A. Equipo especializado

tocada por el herbicida. tiempo que protegen la vegetación deseable, para que no sea ción del herbicida directamente sobre las malezas, al mismo Los rociadores con paníalla o con capucha aplican la solurealezas se recoge y se retorna al tanque para volverla a usar mientras que la solución que no ha sido interceptada por las tipos de malezas que crecen sobre vegetación deseable, Los rociadores de recirculación dirigen la solución hacia los crecen en ingares no cultivables especificados en este libreto. mexclando bien con agua, sobre las malezas mencionadas que cadores por frotación o barras de esponía, diluyendo y lación, aplicadores con paníalla, rociadores con capucha, apli-Este producto puede aplicarse usando rociadores de recircu-

absorbente que contenga la solución del herbicida. del herbicida frofando las malezas con un material Los aplicadores por frotación o de esponja aplican la solución

DESERBLE YA QUE ES PROBABLE QUE SUFRA GRAVES EVITE EL CONTACTO DEL HERBICIDA CON LA VEGETACION

eapnma o salpicaduras del herbicida en contacto con la vegadas arriba de la vegetación deseable. Gotas, niebla, el punto de contacto más bajo este por la menas a 2 puideseable deben ser calibrados de tal manera que el rociado o Los aplicadores utilizados por encima de la vegetación DANOS O SEA DESTRUIDA TOTALMENTE.

defeción deseable pueden causar con mucha probabilidad

puede bacerse necesario repetir el tratamiento. que todas sean tocadas por el herbicida. En estos casos están muy concentradas, cuando la infestación es grave o donde la altura de las malezas es variada, lo que no permite alectadas. Esto puede ocurrir en lugares donde las malezas que no entran en contacto con la solución herbicida no seran de la maleza entra en contacto con el herbicida. Las malezas Se oblienen mejores resultados cuando una mayor cantidad descoloración, atrofía o destrucción.

NOIDADIJAA AJ ARA9

Use boquillas que aseguren un recubrimiento uniforme en toda el área tratada. En los rociadores con pantalla, mantenga las pantallas debidamente colocadas a fin de proteger la vegetación que no se desee destruir. SE DEBE TENER MUCHO CUIDADO PARA EVITAR EL CONTACTO DEL HERBICIDA CON LA VEGETACION DESEABLE.

Aplicadores por frotación y barras de esponja

El equipo debe ser diseñado, mantenido y operado de manera que la solución del herbicida no haga contacto con la vegetación deseable. Opere este equipo a velocidades inferiores a las 5 millas por hora. En áreas donde la infestación es grave, se puede mejorar la eficacia reduciendo la velocidad, asi se asegura que el frotador esté siempre adecuadamente saturado con la solución del herbicida. Se obtienen mejores resultados si se aplica dos veces en direcciones opuestas.

Evite fugas o goteos sobre la vegetación deseable. Ajuste la altura de los aplicadores a fin de asegurar un contacto adecuado con las malezas. Mantenga limpias las superficies de frotación. Tenga presente que en terrenos inclinados, el herbicida puede migrar causando goteos en la parte baja y el secado de las mechas en la parte superior del aplicador por frotación.

No use aplicadores por frotación cuando las malezas estén moiadas.

Mezcle solamente la cantidad de solución que se usará durante el período de un día, debido a que el uso de sobras de días anteriores puede dar como resultado un efecto menos eficiente. Inmediatamente después de usar este producto, lave bien el aplicador usando bastante agua.

Para aplicadores de cordón o de mecha de esponja-Puede emplearse soluciones que oscilan entre 33 y 75 por ciento de este producto en agua.

Para aplicadores tipo plástico poroso y sistemas a presión-Se pueden usar soluciones que vayan del 33 por ciento al 100 por ciento de este producto con agua.

Cuando se aplica de acuerdo con las condiciones descritas, este producto CONTROLA las malezas siguientes:

Corn, volunteer

Sicklepod

Panicum, Texas

Spanishneedles

Rye, common

Starbur, bristly

Cuando se aplica de acuerdo con las condiciones descritas, este producto SUPRIME las malezas siguientes:

Beggarweed, Florida

Ragweed, common

Bermudagrass

Ragweed, giant

Dogbane, hemp

Smutgrass

Dogtennel

Sunffower

Guineagrass Johnsongrass Thistle, Canada Thistle, musk

Milkweed Nightshade, silverleat Vaseygrass

Velvetleaf Pigweed, redroot

7.5 Sistemas por inyección

Este producto puede usarse con sistemas de rociado por inyección, ya sean aéreos o a nivel del terreno. Puede usarse como concentrado liquido no diluido antes de la inyección en el chorro de rociado. No mezcle este producto con concentraciones de otros productos cuando use los sistemas por inyección salvo que se recomiende especificamente.

6 Equipo de aplicación por goteo controlado

La proporción del producto aplicado por acre usando el equipo de aplicación por goteo controlado no debe ser menor que la recomendada en este libreto cuando se usa equipo convencional para aplicación diseminada. Cuando se usa el equipo aplicador por goteo controlado montado en un vehículo, use de 3 a 15 galones de agua por acre.

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Los equipos de goteo controlado producen un rociado que es dificil de ver. Se debe tener especial cuidado para evitar que el rociado o el acarreo entre en contacto con el tollaje o cualquier otra parte verde de la vegetación que no se quiere tratar, ya que en caso contrario, es probable que ésta sea dañada o destruida.

8.0 RECOMENDACIONES SEGUN AREAS Y USO

A continuación aparecen las instrucciones detalladas para cada área.

A menos que se específique lo contrario, pueden hacerse aplicaciones para controlar las malezas listadas en las tablas de malezas anuales, perennes y matorrales leñosos. Vea también la sección "EQUIPO SELECTIVO".

8.1 Troncos cortados

El tratamiento de troncos cortados puede hacerse en cualquier área listada en este libreto. Este producto controla muchas especies de matorrales leñosos y árboles, algunos de los cuales se mencionan a continuación. Aplique este producto usando equipo adecuado para garantizar la cobertura completa del cámbium. Corte los árboles o sus brotes cerca de la superficie del suelo. Aplique una solución de este producto del 50 al 100 por ciento a la superficie recién cortada, inmediatamente después del corte. Demorar la aplicación puede reducir la eficacia del producto. Para obtener mejores resultados, la aplicación deberá hacerse durante tos períodos de crecimiento activo y expansión completa de las hojas.

Alder Eucalyptus Madrone Oak Reed, giant Saltcedar Sweetgum Tan oak Willow

NO HAGA LAS APLICACIONES SOBRE TRONCOS CORTADOS CUANDO LAS RAICES DE LOS MATORRALES LEÑOSOS O ARBOLES DESEABLES PUEDEN ESTAR INJERTADAS A LAS RAICES DE LOS TRONCOS CORTADOS. ES PROBABLE QUE LOS MATORRALES LEÑOSOS O ARBOLES ADYACENTES SE VEAN DAÑADOS DEBIDO AL INJERTO DE RAICES.

8.2 Areas generales no cultivables y áreas industriales

Uselo en áreas como aeropuertos, conjuntos de apartamentos, viveros de árbotes de Navidad, orillas de acequias, acequias secas, canales secos, flias de vallas, campos de golf, áreas industriales, depósitos de madera, áreas de manufactura, conjuntos de oficinas, viveros ornamentales, parques, áreas de estacionamiento, terrenos de tanques de petróleo e instalaciones de bombeo, vias de terrocarril, áreas recreativas, áreas residenciales, carreteras, granjas de semillas de céspedes o tepes, escuelas, áreas de almacenamiento, subestaciones de servicios públicos, almacenes, otras áreas públicas y lugares similares industriales y no cultivables.

Control gêneral de malezas, recortado de bordes y suelo limpio de malezas

Este producto puede usarse en áreas generales no cultivables. Puede aplicarse con cualquiera de los equipos descritos en este libreto. Puede usarse para el recortado de bordes atrededor de objetos en áreas no cultivables, para tratamiento localizado de vegetación no deseable y para eliminar las malezas no deseables que crecen en cuadros de arbustos establecidos y plantaciones ornamentales. Este producto puede usarse antes de plantar unárea con plantas ornamentales, flores, césped (tepes o semillas), o antes de colocar astalto o de comenzar un proyecto de construcción.

Pueden hacerse aplicaciones repetidas de este producto, a medida que emergen las malezas, para mantener el suelo limpio de malezas.

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RECOMENDAGIONES SECON AREAS Y USO 22

Este producto puede mezclarse en tanque con los productos siguientes. Vea las etiquetas de estos productos para ver cuáles son los lugares no cultivables aprobados y las proporciones para su aplicación.

ARSENAL™
BANVEL
BARRICADE™ 65WG
DIURON
ENDURANCE™
ESCORT™
GARLON™ 3A
GARLON 4
KARMEX™ DF
KROVAR™ I DF
MANAGE®
OUST

PENDULUM™ 3.3 EC PENDULUM WOG PLATEAUIM PRINCEP™ DF PRINCEP LIQUID RONSTAR™ 50 WP SAHARA™ SIMAZINE SURFLAN™ TELAR™ VANQUISH™

Las mezclas con Banvel y 2,4-D no se pueden aplicar en forma aeren en California.

2.4-D

Cuando se aplica como mezcia de tanque para mantener el suelo limpio de malezas, este producto proporciona control sobre las malezas anuales emergidas y control o control parcial sobre las malezas perennes emergidas, matorrales leñosos y árboles.

Para controlar o controlar parcialmente las maiezas perennes siguientas, aplique 1 a 2 cuartos de galón de este producto más 2 a 4 onzas de Oust por acre.

Bahiagrass Bermudagrass Broomsedge Dallisgrass Oock, curly Oogfennel Fescue, tall Johnsongrass Poorjoe Quackgrass Vaseygrass Vervain, blue

Chapeo químico - Plantas perennes

Este producto suprime las hierbas perennes mencionadas en

esta sección para servir como substituto del chapeo. Use 8 onzas fluidas de este producto por acre cuando trate tall fescue, firte fescue, orchardgrass o quackgrass. Use 6 onzas fluidas de este producto por acre cuando trate Kentucky bluegrass. Aplique el tratamiento en 10 a 40 galones de solución para rociar por acre.

Uselo solamente en áreas en las que puede tolerarse un daño o decoloración temporat de las hierbas perennes.

Chapeo quimico - Plantas anuales

Para suprimir el crecimiento de algunas hierbas anuales, tates como el ballico, la cebada silvestre y la avena loca anuales que crecen en céspedes agrestes al borde de las carreteras u otras áreas industriales, aplique de 4 a 5 onzas fluidas de este producto en 10 a 40 gatones de solución de rociado por acre. Las aplicaciones se deben realizar cuando las hierbas anuales crezcan activamente y antes de que las semillas se encuentren en la etapa de "boot" del desarrollo. Los tratamientos pueden perjudicar a las hierbas deseadas.

Césped latente

Este producto puede usarse para controlar o suprimir muchas malezas anuales de invierno y tall fescue para el alivio eficaz de céspedes de bermudagrass y bahiagrass latentes. Trate solamente cuando el césped esté latente y antes de reverdecer en la primavera.

Aplique de 8 a 64 onzas fluidas de este producto por acre. Aplique las dosis recomendadas en 10 a 40 galones de agua por acre. Utilicelo sólo en áreas donde bermudagrass o bahiagrass seán coberturas de terreno convenientes y donde pueda tolerarse algún daño temporal o descoloración.

Los tratamientos en exceso de 16 onzas fluidas por acre, pueden dañar o retrasar el reverdecer en las áreas donde se hace mucho mantenimiento, como campos de golf y jardines. NO aplique mezclas de tanque de este producto más Oust en áreas de césped donde se hace mucho mantenimiento. Para otros usos, vea la sección "AL BORDE DE LAS

RECOMENDACIONES SEGUN AREAS Y USO 24

CARRETERAS" de esta etiqueta, que proporciona dosis para tratamientos de bermudagrass y bahiagrass latentes.

Bermudagrass de crecimiento activo

Este producto puede emplearse para controlar total o parcialmente muchas malezas anuales y perennes a fin de obtener una distribución eficaz de bermudagrass de crecimiento activo. NO aptique más de 16 onzas fluidas de este producto por acce en áreas de céspedes de alto mantenimiento. NO aptique mezclas de tanque de este producto más OUST en áreas de céspedes de alto mantenimiento. Para otros usos, vea la sección "AL BORDE DE LAS CA-RRETERAS" de esta etiqueta, que proporciona dosis para tratamientos de bermudagrass de crecimiento activo. Billicelo sólo en áreas donde puede tolerarse algún daño temporal o descoloración.

Renovación de césped, producción de semillas o tepes

Este producto controla la mayoria de la vegetación existente antes de la renovación del césped o de establecer céspedes cultivados para semilla o tepes. Para un control máximo de la vegetación existente, demore la siembra o cobertura de césped a lin de determinar si las partes de la planta que quedaron bajo tierra vuelven a crecer. Cuando sea necesario repetir el tratamiento, permita que las plantas se desarrollen la suficiente antes de volver a tratar. Para controlar más eficientemente las hierbas de estación catiente, como bermudagrass, se debe aplicar este producto en el verano o en el otoño. En lugares donde la vegetación existente esté creciendo y el césped esté bajo un programa de siega, aplique este producto después de omitir por lo menos un corte del césped para permitir un crecimiento suficiente a fin de que el rociado sea interceptado por las plantas.

No remueva la tierra ni fas partes de la planta que estén bajo tierra antes del tratamiento. La fabranza o las técnicas de renovación como corte vertical, perforación o rebanado deben esperar 7 días después de la aplicación a fin de permitir la

absorción adecuada en las partes de la planta que estén bajo lierra.

Pueden plantarse los céspedes convenientes siguiendo los procedimientos anteriormente mencionados.

Puede utilizarse equipo de mano para el tratamiento in situ de vegetación no deseada que crezca en el cesped existente. Puede utilizarse equipo de transmisión o de mano para controlar los restos de tepes u otra vegetación no deseada después de cosechar el tepe.

No use como alimento ni pastoreo el césped cultivado para la producción de semillas o tepes antes de que transcurran 8 semanas desde la aplicación.

8.3 Manejo de hábitats

Restauración y mantenimiento de hábitats

Este producto puede ser usado para controlar la vegetación exótica y otras plantas indeseables en áreas de manejo de hábitats y en áreas naturates, incluyendo hábitats nativos y refugios para la fauna silvestre. Pueden hacerse aplicaciones para permitir la recuperación de las especies de plantas nativas, antes de plantar dichas especies nativas deseables, y para otros requisitos similares de control de la vegetación de amplia electividad. A fin de eliminar selectivamente ciertas plantas indeseables, se pueden hacer aplicaciones en puntos especilicos para controlar y mejorar el hábitat.

Sitios donde se siembran alimentos para la fauna silvestre. Este producto puede ser usado para preparar el terreno donde se desea sembrar alimentos para la fauna silvestre. Cualquier especie de alimento para la fauna silvestre puede ser sembrada después de aplicar este producto, o también se puede permitir que las especies nativas vuelvan a poblar el área. Si hace talta labrar para preparar el terreno antes de sembrar las semillas, espere 7 dias después de aplicar este producto antes de arar a fin de permitir la absorción ade-

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cuada en las partes de la planta que estén bajo tierra.

8-4 Inyección y chorro (matorrales leñosos y árboles)

Los matorrales leñosos y árboles pueden ser controlados aplicando este producto por inyección o chorro. Aplique este producto usando equipo adecuado, que debe ser capaz de penetrar en el tejido viviente. Aplique 1 ml de este producto por cada 2 ó 3 pulgadas de diámetro del tronco a la altura del pecho (DBH en inglés). La mejor forma de hacerlo es aplicando una solución del 50 al 100 por ciento, este producto, con un chorro continuo alrededor del arbol o en cortes espaciados uniformemente alrededor del árbol y por debajo del nivel de las ramas. A medida que el diámetro del árbol aumenta, se obtienen mejores resultados con el chorro continuo alrededor del árbol o en cortes espaciados muy cerca entre si alrededor del árbol. Evite las aplicaciones que permiten el desagüe de material cuando se chorrea alrededor del árbol o sobre los cortes en árboles que tienen la facilidad de exudar savia de los cortes. En especies de este tipo, haga los cortes de manera oblicua a fin de producir el efecto de copa y use el producto sin disolver. Para obtener mejores resultados, la aplicación debe tener lugar durante períodos de crecimiento activo y expansión completa de las hojas. Este tratamiento controlará muchas especies, algunas de las cuales incluyen:

Control Control oarcial
Oak Black gum
Poplar Dogwood
Sweetgum Hickory
Sycamore Maple, red

8.5 Plantas ornamentales y viveros, árboles de Navidad

Post-dirigido, recortado de bordes

Este producto puede ser usado como un rocio post-dirigido alrededor de especies ornamentales leñosas establecidas, como arborvitae, azalea, boxwood, crabapple, euonymus, fir, douglas fir, jojoba, hollies, filac, magnolia, maple, oak, privet, pine, spruce y yew. Este producto también puede ser usado para recortado de bordes alrededor de árboles, edificios, aceras y carreteras, plantas en macetas y otros objetos de viveros.

Las plantas deseables pueden ser protegidas de la solución usando pantallas o cubriêndolas con cartón o con algún otro material impermeable. ESTE PRODUCTO NO SE RECOMIENDA PARA ROCIARSE DESDE ARRIBA SOBRE PLANTAS ORNAMENTALES Y ARBOLES DE NAVIDAD. Se debe tener mucho cuidado para que el rocio, acarreo o vapor de este producto no hagan contacto con el follaje o la corteza verde de las especies ornamentales establecidas.

Preparación del terreno

Este producto puede ser usado antes de plantar cualquier tipo de planta ornamental, de vivero o árboles de Navidad.

Invernaderos/cobertizos

Este producto puede ser usado para controlar las malezas que estén creciendo en o alrededor de los invernaderos y cobertizos. No debe haber vegetación que no se quiera destruir y los equipos de ventilación deben estar apagados.

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8.6 Parques, áreas recreativas y residenciales

Este producto puede usarse en parques, áreas recreativas y residenciales. Puede aplicarse con cualquiera de los equipos descritos en este libreto. Puede usarse pára el recortado de bordes alrededor de árboles, vallas, caminos, alrededor de edificios, aceras y otros objetos en estas áreas. Puede usarse para tratamiento localizado de vegetación no deseable y para eliminar las malezas no deseables que crecen en cuadros de arbustos establecidos y plantaciones ornamentales. Este producto puede usarse antes de plantar un área con plantas ornamentales, flores, césped (tepes o semillas), o antes de colocar asfalto o de comenzar un proyecto de construcción.

Todas las instrucciones de la sección "AREAS GENERALES NO CULTIVABLES Y AREAS INDUSTRIALES" son válidas para los parques y áreas recreativas.

8.7 Vías de ferrocarril

Todas las instrucciones de la sección "AREAS GENERALES NO CULTIVABLES Y AREAS INDUSTRIALES" son válidas para las vías de ferrocarrií.

Suelo vacío, balastos y bordes, cruces y tratamiento localizado

Este producto puede ser usado para mantener el suelo limpio de malezas en balastos y bordes de las vias de ferrocarril. Pueden hacerse aplicaciones repetidas de este producto, a medida que emergen las malezas, para mantener el suelo limpio de malezas. Este producto puede usarse para controlar las malezas altas y mejorar la linea visual en los cruces de ferrocarril y reducir la necesidad de segar a lo largo de las servidumbres de via. Para aplicaciones en los cruces, pueden usarse hasta 80 galones de solución para rociar por acre.

Este producto puede mezclarse en tanque con los siguientes productos para tratamiento de balastos, bordes, tratamientos localizados, suelo timpio de malezas y cruces:

ARSENAL KROVAR I DE BANVEL OUST DIURON SAHARA ESCORT SPIKETM GARLON 3A TELAR GARLON 4 2,4-D HYVARTM X

Control de materrales

Este producto puede ser usado para controlar matorrales leñosos y árboles en las servidumbres de vía. Aplique de 4 a 10 cuartos de galón de este producto por acre para aplicaciones diseminadas, usando boquillas tipo aguilón o sin aguilón. Pueden usarse hasta 80 galones de solución para rociar por acre. Aplique una solución de 3/4 a 2% de este producto cuando haga aplicaciones de rociado para mojar a gran escala. Aplique una solución de 5% a 10% de este producto cuando haga aplicaciones de rociado dirigido a pequeña escala para tratamientos localizados. Este producto puede ser mezclado con los siguientes productos para un mejor control de los matorrales leñosos y árboles:

ARSENAL GARLON 4
ESCORT TORDON** K
GARLON 3A

Mantenimiento del bermudagrass

Este producto puede ser usado para controlar o controlar parcialmente muchas malezas anuales y perennes para el mantenimiento eficaz de bermudagrass que esté creciendo activamente. Aplique de 1 a 3 pintas de este producto en un máximo de 80 galones de solución para rociar por acre. Para tratar malezas anuales que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas. Use la proporción más alta a medida que las malezas aumenten de tamaño o cuando estén cerca de la floración o

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de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Johnsongrass Bahiaorass Trumpetcreeper Bluestem, silver Vaseygrass Fescue, tall

Este producto puede ser mezciado con Oust. Si se mezcia en tanques, no use más de 1 a 3 pintas de este producto con 1 a 2 onzas de Oust por acre. Para tratar matezas anuales listadas en este libreto y en el libreto de Oust, que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas de cada producto. Use la proporción más alta a medida que las malezas aumenten de tamaño o cuando estén cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Fescue, tall Bahiagrass Johnsongrass Blackberry Bluestern, silver Poorjoe Raspberry Broomsedge Trumpetcreeper Daltisgrass Vaseygrass Dewberry Vervain, blue Dock, curly Dontennel

Uselo solamente en bermudagrass que esté bien establecido. Como resultado del tratamiento, el bermudagrass puede sufrir deterioro, pero volverá a crecer si se riega. No se recomienda repetir el tratamiento en la misma estación, ya que esto puede ocasionar daños graves al bermudagrass.

8.8 Carreteras

Todas las instrucciones de la sección "AREAS GENERALES NO CULTIVABLES Y AREAS INDUSTRIALES" son válidas para las carreteras.

Tratamiento de bordes

Este producto puede ser usado en los bordes de las carreteras. Puede aplicarse con rociadores de aguilón, rociadores de aguillon con pantalla, boquillas descentradas de gran volumen, equipo de mano y equipos similares.

Barandas y otros obstáculos para la siega

Este producto puede ser usado para controlar las malezas que crecen debajo de las barandas y alrededor de la señalización y otros objetos en los bordes de las carreteras.

Tratamiento localizado

Este producto puede ser usado como tratamiento localizado para controlar la vegetación indeseable que crece a lo largo de los bordes de las carreteras.

Este producto puede mezclarse en tanque con los productos siquientes para tratamientos de bordes, barandas, localizados y de suelo vacío:

BANVEL PRINCEP LIQUID DIURON RONSTAR 50WP **ENDURANCE** SAHARA SIMAZINE **ESCORT** KROVAR I DE SURFLAN OUST TEL AR PENDULUM 3.3 EC PENDULUM WOG 2,4-D

PRINCEP OF

Vea las instrucciones generales para mezclas de tanque en la sección "AREAS GENERALES NO CULTIVABLES Y AREAS INDUSTRIALES" de este libreto.

Mantenimiento del Bermudagrass y Bahiagrass

Aplicaciones cuando estén latentes

Este producto puede usarse para controlar o controlar parcialmente muchas malezas anuales de invierno y tall fescue para el alivio eficaz de bermudagrass y bahiagrass latentes.

MALEZAS CONTROLADAS

Trate solamente cuando el césped esté latente y antes de su reverdecer primaveral. Este producto puede mezclarse con Oust en tanque para el control residual. Las mezclas de lanque de este producto con Oust pueden retrasar el reverdecer.

Para obtener mejores resultados con malezas anuales de invierno, haga el tratamiento cuando las plantas estén en una etapa temprana de su crecimiento (menos de 6 pulgadas de altura) después de que la mayoria haya germinado. Para obtener mejores resultados con tall fescue, haga el tratamiento cuando el fescue esté en o después de su etapa de 4 a 6 hojas.

Aplique de 8 a 64 onzas fluidas de este producto por acre, solo o en mezcla de tanque con 1/4 a 1 onza de Oust por acre. Aplique las proporciones recomendadas en 10 a 40 galones de agua por acre. Uselo solamente en áreas donde el bermudagrass o bahiagrass son deseables y en las que puede tolerarse un poco de daño o decoloración. Para evitar que el reverdecer se retarde y para minimizar, el daño, no agregue más de 1 onza de Oust por acre sobre bermudagrass y no más de 0.5 onzas de Oust por acre sobre bahiagrass, y evite el tratamiento cuando estas hierbas se encuentren en estado semi-latente.

Bermudagrass que esté creciendo activamente

Este producto puede ser usado para controlar total o parcialmente muchas matezas anuales y perennes para el mantenimiento eficaz de bermudagrass que esté creciendo activamente. Aplique de 1 a 3 pintas de este producto en 10 a 40 galones de solución para rociar por acre. Para tratar matezas anuales que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas. Use la proporción más alta a medida que las malezas aumenten de tamaño o cuando estén cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Bahiagrass Bluestem, silver Fescue, tall Johnsongrass Trumpetcreeper Vaseygrass

Este producto puede ser mezclado con Oust. Si se mezcla en tanques, no use más de 3 a 2 pintas de este producto con 1 a 2 onzas de Oust por acre. Para tratar malezas anuales listadas en este libreto y en el libreto de Oust, que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas de cada producto. Use la proporción más alta a medida que las malezas aumenten de tamaño o cuando estén cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Bahiagrass Fescue, tall
Bluestem, silver Johnsongrass
Broomsedge Poorjoe
Dallisgrass Trumpetcreeper
Dock, curty Vaseygrass
Doglennel Vervain, blue

Uselo solamente en bermudagrass que esté bien establecido. Como resultado del tratamiento, el bermudagrass puede sufrir deterioro, pero volverá a crecer si se riega. No se recomienda repetir el tratamiento con la mezcla de tanque en la misma estación, ya que esto puede ocasionar daños graves al bermudagrass.

Bahiagrass que esté creciendo activamente

Para suprimir el crecimiento vegetativo y la inhibición de la formación de semillas de bahiagrass durante aproximadamente 45 días, aplique 6 onzas fluidas de este producto en 10 a 40 galones de agua por acre. Aplique de 1 a 2 semanas después de reverdecer completo o después de cortar a una altura uniforme de 3 a 4 pulgadas. Esta aplicación debe ser hecha antes de la emergencia de las semillas.

Para la supresión durante un máximo de 120 días, aplique 4 onzas fluidas de este producto por acre, y a continuación una

- -

aplicación de 2 a 4 onzas lluidas por acre unos 45 días más tarde. No haga más de 2 aplicaciones al año.

Puede usarse una mezcia de tanque de este producto con Oust. Aplique 6 onzas fluidas de este producto con 0.25 onzas de Oust por acre, 1 a 2 semanas después de la primera siega de la primavera. Haga solamente 1 aplicación al año.

9.0 TIPOS DE MALEZAS CONTROLADAS

Use siempre la proporción más alta de este producto por acre, dentro de las proporciones recomendadas, cuando las malezas son densas o cuando crecen en un área no tocada (no cultivada).

Puede haber una disminución de los resultados cuando se traten malezas cubiertas con mucho polvo. Para las malezas que han sido segadas, pastadas o cortadas, permita que vuelvan a crecer antes del tratamiento.

Vea las secciones siguientes para las proporciones recomendadas para el control de malezas, matorrales leñosos y árboles anuales y perennes. Para las malezas, matorrales leñosos y árboles difíciles de controlar, donde las plantas crecen en condiciones de estrés, o donde la infestación es densa, pueden usarse 5 a 10 cuartos de galón por acre de este producto para obtener mejores resultados.

9.1 Malezas anuales

Use 1 cuarto de gatón por acre si las malezas tienen menos de 6 pulgadas de altura o largo de los tallos y 1.5 cuartos a 4 cuartos de gatón por acre si las malezas tienen más de 6 pulgadas de altura o largo de los tallos o cuando las malezas trecen en condiciones de estrés.

Para aplicaciones de rociado para mojar, aplique una solución de 0.5% de este producto a las malezas que tengan

menos de 6 pulgadas de altura o largo de los tallos. Haga la aplicación antes de la formación de semillas para la hierba, o la formación de yemas para las malezas de hoja ancha.

Para las malezas anuales que tienen más de 6 pulgadas de altura o las malezas más pequeñas que crecen en condiciones de estrés, use una solución del 1 al 2 por ciento. Use la dosis más alta para las especies dificiles de controlar o las malezas de más de 24 pulgadas de altura.

ESPECIES DE MALEZAS

Annoda, spurred Barley' Barnyardgrass' Bittercress Black nightshade Bluegrass, annual Bluegrass, butbous* Bassia, fivehook Brome, downy' Brome, Jananese Browntop panicum Buttercup Carolina foxtail Carotina geranium Castor Bean Cheatgrass' Cheeseweek (matva Parviflora) Chickweed* Cocklebur* Copperleaf, hophornbeam Corn'

Corn speedwell*

Dwarfdandelion*

Crabgrass*

Eastern mannagrass' Eclipta* Fall panicum Falsedandelion* Falsettax, smallseed* Fiddleneck Field pennycress: Filaree Fleabane, annuat* Fleabane, hairy (Conyza bonariensis) * Fleabane, rough Florida pusley Foxtait' Goalgrass, jointed* Goosegrass Grain sorghum (milo) Groundsel, common Hemp sesbania Henbit Horseweed/Marestail (Conyza canadensis) Itchgrass' Johnsongrass, seedling Junglerice Knotweed Kochia

Lambsquarters *

Sicklepod London rocket* Signalgrass, broadleat* Mayweed Smartweed, ladysthumb Medusahead Smartweed, Pennsylvania* Morningglory Sowthistle, annual (Ipomoea spp.) Spanishneedles Mustard, blue* Speedwell, purslane* Mustard, tansy* Sprangletop* Mustard, tumble* Spurge, annual Mustard, wild* Spurge, prostrate* Spurge, spotted Pigweed* Spurry, umbrella: Starthistle, yellow Plains/Tickseed coreopsis* Prickly lettuce* Stinkgrass* Puncturevine Sunflower* Purslane, common Teaweed/Prickly sida Ragweed, common* Texas panicum Ragweed, giant Velvetleaf Red rice Virginia copperleat Russian thistle Virginia pepperweed Rye* Wheat* Ryegrass* Wild oats! Sandbur, field* Witchgrass' Shattercane* Woolly cupgrass: Shepherd's-purse* Yellow rocket

*Cuando use equipos de aplicación diseminada a nivel del terreno (aplicaciones aéreas o rociadores de aguilón con boquillas tipo abanico plano), estas especies serán controladas o controladas parcialmente con 1 pinta de este producto por acre. Las aplicaciones deben hacerse usando de 3 a 10 galones de volumen por acre. Use boquillas que garanticen una cobertura completa del follaje y haga el tratamiento cuando las malezas estén en su etapa temprana de crecimiento.

9.2 Malezas perennes

Los mejores resultados se obtienen cuando las malezas perennes son tratadas una vez que han alcanzado la etapa reproductiva de su crecimiento (inicio de las semillas para hierbas y formación de yemas para malezas de hoja ancha). Para las plantas sin flores, los mejores resultados se obtienen cuando las plantas alcanzan el estado de madurez. En muchos casos, se requiere el tratamiento antes de estas etapas del crecimiento.

En estós casos, use la proporción más alta dentro de las proporciones recomendadas,

Asegürese de que la cobertura sea a fondo cuando emplee tratamientos de rociado para mojar con equipo de mano. Cuando utilice equipo de mano para tratamientos in situ de bajo volumen, aplique una solución de 5 a 10 por ciento de este producto.

Espere 7 días o más después de la aplicación antes de labrar.

Especies de malezas	Proporción (cuartos por acre)	% de solución de mano
Alfaifa*	1	2
Ailigatorweed"	4	1.5
Anise (fennel)	 -	1-2
Bahiagrass	3-5	2
Beachgrass, European (Ammophila Arenaria)	-	5
Bentgrass*	1.5	2
Bermudagrass	5	2
Bermudagrass, water		_
(knotgrass)	1.5	2
Bindweed, field	4-5	2
Bluegrass, Kentucky	2	2
Blueweed, Texas	4-5	2
Brzckeniem	3-4	1-1.5
Bromegrass, smooth	2	2

TIPOS DE MALEZAS CONTROLADAS

Especies de malezas	Proporción	% de salución
	(cuartos por acre)	de mano
Bursage, woolly-leaf	_	2
Canarygrass, reed	2-3	2
Cattail	3-5	2
Clover; red, white	3-5	2
Cogongrass	3-5	2
Dallisgrass	3-5	2
Dandelion	3-5	2 2 2 2 2 2 2 2 2
Dock, curly	3-5	2
Dogbane, hemp	4	2
Fescue (except tall)	3-5	2
Fescue, tall	1-3	2
German ivy	2-4	1-2
Guineagrass	3	1
Horsenettle	3-5	ż
Horseradish	4	2
Iceplant	ż	1.5-2
Jerusalem artichoke	3-5	2
Johnsongrass	2-3	1
Kikuyugrass	2-3	2
Knapweed "	4	2
Lantana .	<u>-</u>	1-1.25
Lespedeza	3-5	
Milkweed, common	3	2 2 2 2 2
Muhty, wirestem	2	2
Mullein, common	3-5	2
lapiergrass	3-5	2
Vightshade, silverleaf	2	. 2
lutsedge; purple, yellow	3	1-2
Drchardgrass	2	2
Pampasgrass	3-5	1.5-2
Paragrass	3-5	2
Pepperweed, perennial	4	2
hragmites*	3-5	1-2
oison hemlock	2-4	1-2
luackgrass	2-3	2 2
Redvine*	2	2
teed, giant	4-5	2 .
yegrass, perennial	2-3	1 .
martweed, swamp	3-5	2
purge, leafy	_	2
weet potato, wild*	_	2
histle, artichoke	2-3	1-2
histle, Canada	2-3	2
imothy	2-3	2
ornedograss"	4.5	2

*Wheatgrass, western *Control parcial

Torpedograss* Trumpetcreeper* Vaseygrass Velvetgrass

9.3 Matorrales leñosos y árboles

3-5

Aplique este producto después de la formación completa de hojas, a menos que se indíque de otra manera. Para las plantas más grandes y/o donde la densidad de la vegetación sea alta, use la proporción más alta. En las plantas emredaderas que han alcanzado el estado leñoso de crecimiento, use las proporciones más altas, tos mejores resultados se obtienen cuando se aplica a finales del verano o en el otoño, después de la formación de frutos.

En zonas áridas, se obtienen mejores resultados cuando se aplica en la primavera o a principios del verano cuando las especies que crecen como matorrales tienen alto contenido de humedad y florecen.

Cuando haga tratamientos de rociado para mojar con equipos de mano, asegúrese de que la cobertura sea total.

Cuando use equipos de mano para tratamientos localizados con rociado dirigido de poco volumen, aplique una solución del 5% al 10 por ciento de este producto.

Es posible que los sintomas no aparezcan antes de las heladas o del envejecimiento con tratamientos de otoño.

Permita que pasen 7 o más dias después de la aplicación antes de labrar, segar o remover. Es posible que se necesite repetir el tratamiento para tratar plantas que emergen de partes enterradas o de semillas. Un poco de colorido otoñal es aceptable en plantas indeseables que pierden las hojas en el otoño, siempre y cuando no hayan sufrido mayor pérdida de hojas. Si la aplicación de otoño se realiza después de que hayan ocurrido heladas, es posible que se obtengan resultados deficientes.

Proporción % de solución

.	Proporción	% de solución
Especies de	(Cuartos	de mano de
malezas	por acre)	rociado para mojar
Alder	3-4	1-1.5
Ash*	2-5	1-2
Aspen, quaking	2-3	1-1.5
Bearclover (Bearmat)*	2-5	, 1-2
Beech*	2-5	1-2
Birch	2	; -
Blackberry	3-4	1-1.5
Blackgum	2-5	1-2
Bracken	2-5	1-2
Broom; French, Scotch	2-5	1.5-2
Buckwheat, California*	2-4	1-2
Cascara*	2-5	1-2
Catsclaw*	3-4	1-1.5
Ceanothus	2-5	1.2
Chamise*	2-5	1 .
Cherry; bitter, black, pin	2-3	1-1.5
Coyole brush	3-4	1.5-2
Deerweed	2-5	1
Dogwood*	2-5	1-2
Elderberry	2	1
Elm"		1-2
Eucalyptus	=	2
Gorse*		2 1-2
		1-2

Hasardia *	2-4	1-2	
Hawthorn	2-3	1-1.5	
Hazel	2°	1	
Hickory*	2-5	1-2	
Honeysuckle	3-4	1-1.5	
Hornbeam, American	2-5	1-2	
Kudzu	4	2	
Locust, black*	2-4	1-2	
Madrone resprouts*		2	
Manzanita*	2-5	1-2	
Maple, red	2-4	1-1.5	
Maple, sugar	_	1-1.5	
Monkey flower*	2-4	1-2	
Oak; black, white	2-4	1-2	
Oak, post	3-4	1-1.5	
Oak; northern, pin	2-4	1-1.5	
Oak, Scrub*	2-4	1-1.5	
Oak; southern red	2-3	1-1.5	
Peppertree Brazilian	2-5	1-2	
(Florida Holly)*			
Persimmon*	2-5	1-2	
Pine	2-5	1-2	
Poison ivy	4-5	2	
Poison oak	4-5	2	
Poplar, yellow	2-5	1-2	
Redbud, eastern	2-5	1-2	
Rose, multiflora	2	1	
Russian olive	2-5	1-2	
Sage, black	2-4	1	
Sage, white	2-4	1-2	
Sage brush, California	2-4	1	
Salmonberry	2	1 '	
altcedar	2-5	1-2	•
assafras*	2-5	1-2	
ourwood*	2-5	1-2	
umac; laurel, poison,	2-4	1-2	
smooth, sugarbush win	ged"		

TIPOS DE MALEZAS CONTROLADAS

Especies de malezas	Proporción (cuartos por acre)	% de solución de mano de rociado para mojar
Sweetgum	2-3	1-1.5
Swordfern*	2-5	1-2
Tallowtree, Chinese	·	1
Tan pak resprouts*		2
Thimbleberry	2	1
Tobacco, tree*	2-4	1-2
Toyon*		2
Trumpetcreeper	2-3	1-1.5
Vine maple*	2-5 .	1-2
Virginia creeper	2-5	1-2
Waxmyrtle, southern*	2-5	1-2
Willow	3	1
Yerbasenta"		2

^{*}Control parcial

10.0 LIMITES EN LA GARANTIA Y EN LA RESPONSABILIDAD

Monsanto Company garantiza que este producto concuerda con la descripción química de la etiqueta y es razenablemente adecuado para los propósitos descritos en el libreto titulado Instrucciones Completas para el Uso ("instrucciones") cuando se usa de acuerdo con dichas Instrucciones y las condiciones que alfí se detallan. NO SE HACE NINGUNA OTRA GARANTIA EXPRESA O IMPLICITA ACERCA DE LA IDONEI-DAD PARA UN USO PARTICULAR O COMERCIABILIDAD. Esta garantía está sujeta también a las condiciones y limitaciones que aquí se indican.

El comprador y todos los usuarios deberán reportar con prontitud a esta Compañía acerca de cualquier reclamo que se base en un contrato, negligencia, estricta responsabilidad, y otros actos ilícitos.

El comprador y todos los usuarios son responsables por todas las pérdidas o daños, que resultasen por el uso o manipulación en condiciones que estén más allá del control de esta Compañía, incluyendo pero no limitándose a: incompatibilidad con productos que no sean los señalados en las Instrucciones, aplicación o contacto con vegetación que no se quiera destruir, condiciones climáticas inusuales, condiciones de clima que estén fuera de los límites que se consideran normales en el lugar de la aplicación y para el período de tiempo en el cual se aplica, así como condiciones de clima que esten tuera de los limites indicados en las Instrucciones, aplicaciones que no estén explicitamente aconsejadas en las Instrucciones, condiciones de humedad que esten fuera de los límites establecidos en las Instrucciones, o la presencia de productos en la tierra o sobre ella, en las plantas o en la vegetación que se está tratando, diferentes a los indicados en las Instrucciones.

LIMITES EN LA GARANTIA

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Esta compañía no garantiza ninguno de los productos reformulados o reempacados de este producto, excepto de acuerdo a los requisitos de la administración de esta compañía y con el permiso escrito expreso de esta compañía.

LA UNICA Y EXCLUSIVA COMPENSACION AL USUARIO O COMPRADOR Y EL LIMITE DE RESPONSABILIDAD DE ESTA COMPAÑIA O DE CUALQUIER OTRO VENDEDOR POR CUALQUIER PERDIDA O POR TODAS LAS PEROIDAS, PERJUICIOS O DAÑOS QUE RESULTASEN DEL USO O MANEJO DE ESTE PRODUCTO (INCLUYENDO RECLAMOS QUE SE BASEN EN UN CONTRATO, NEGLIGENCIA, ESTRICTA RESPONSABILIDAD Y OTROS ACTOS ILICITOS) SERA EL PRECIO PAGADO POR EL USUARIO O EL COMPRADOR POR LA CANTIDAD INVOLUCRADA DE ESTE PRODUCTO, O A ELECCION DE ESTA COMPAÑIA O OE OTRO VENDEDOR, EL REEMPLAZO DE DICHA CANTIDAD, O SI NO SE OBTUVO MEDIANTE COMPRA SE REEMPLAZARA DICHA CANTIDAD DEL PRODUCTO. EN NINGUN CASO ESTA COMPAÑIA U DTRO VENDEDOR SERAN RESPONSABLES POR DAÑOS INCIDENTALES, CONSECUENTES O ESPECIALES.

En el momento de abrir y usar el producto, se asume que el comprador y todos los usuarios han aceptado las condiciones de los LIMITES EN LA GARANTIA Y EN LA RESPONSABILIDAD que no pueden variar por medio de ningún acuerdo verbal o escrito. Si las condiciones son inaceptables, devuelva el producto inmediatamente sin abrir el recipiente.

Manage es una marca comercial registrada de la empresa Monsanto Company.

Escort, Hyvar, Karmex, Krovar, Oust y Telar son marcas comerciales de E.I. duPont de Nemours and Company.

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Banvel, Barricade, Endurance, Princep, y Vanquish son una marca comercial de Novarlis Corporation.

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Arsenal, Pendulum, Plateau, y Sahara son marcas comercial es de American Cyanamid Company.

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The complete broad spectrum postemergence professional herbicide for industrial, turf and ornamental weed control.

Complete Directions for Use

EPA Reg. No. 524-475

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION IS LIKELY TO RESULT.

Roundup Pro is a registered trademark and Monsanto and the Vine symbol are trademarks of Monsanto Company.





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CONTENTS

Read the entire label before using this product. Use only according to label instructions.

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Not all products recommended on this label are registered for use in California. Check the registration status of each product in California before using.

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of the label before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

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1.0 INGREDIENTS

ACTIVE INGREDIENT:

'Glyphosate, N-(phosphonomethyl)glycine,	
in the form of its isopropylamine salt	41.0%
INERT INGREDIENTS (including surfactant):	. 59.0%
	100.0%

*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

This product is protected by U.S. Patent No. 4,405,531 and by U.S. Patent No. 5,703,015. Other patents pending. No license granted under any non-U.S. patent(s).

INGREDIENTS

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IMPORTANT PHONE NUMBERS

2.0 IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE,

1-800-332-3111

2. IN CASE OF AN EMERGENCY, INVOLVING THIS PRODUCT, OR FOR MEDICAL ASSISTANCE, CALL COLLECT, DAY OR NIGHT, \$\frac{12}{2}(314)\frac{1694}{694}4000\frac{1}{2}\$

3.0 PRECAUTIONARY STATEMENTS

3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION

CAUSES EYE IRRITATION.

Avoid contact with eyes or clothing.

FIRST AID: IF IN EYES, flush with plenty of water. Get medical attention if irritation persists.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170,240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Users hould support the following state of the following the fol

3.2 Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

3.3 Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS 6

DO NOT MIX. STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 1703 his Standard contains requirements for the protection of agricultural workers on farms, forests invisenes; and greenlowess and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions perfaining to the statements on this label about Personal Protective Equipment (PRF) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard's Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours. PPF required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil or water, is coveralls a waterproof gloves shoes plus socks.

Non-Agricultural Use Requirements in the requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (40 CFR Part 170) for agricultural pesticides. The WPS applies when this product is used to produce agricultural plants on farms, forests; nurseries or greenhouses. Keep people and pets off treated areas until spray solution has dried to prevent transfer of this product onto desirable venetation.

4.0 STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

See container label for STORAGE AND DISPOSAL instructions.

5.0 GENERAL INFORMATION

Product Description: This product is a postemergent, systemic herbicide with no soil residual activity. It gives broad spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble liquid containing surfactant and no additional surfactant is needed or recommended.

Environmental Fate: When this product comes in contact with the soil it is bound to soil particles. When used in accordance with label directions, once this product is bound it is not available for plant uptake and will not harm off-site vegetation where roots grow into the treatment area or if the soil is transported off-site. The strong affinity of this product to soil particles prevents this product from leaching out of the soil profile and entering ground water. The affinity between this product and soil particles remains until this product is degraded, which is primarily a biological degradation process carried out under both aerobic and anaerobic conditions by soil microflora.

GENERAL INFORMATION

GENERAL INFORMATION

Time to Symptoms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above-ground growth and deterioration of underground plant parts.

Mode of Action in Plants: The active ingredient in this product inhibits an enzyme found only in plants that is essential to formation of specific amino acids.

Cultural Considerations: Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut, and have not been allowed to regrow to the recommended stage for treatment.

Raintastness: Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate control.

No Soil Activity: Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the

Volatility: Roundup Pro herbicide is non-volatile. Therefore, it cannot move as a vapor after application to affect nearby

Toxicology: Exposure to workers and other applicators generally is expected to pose minimal risks based on results of short-term toxicity studies. Glyphosate has been thoroughly tested and determined not to cause cancer or other adverse long-term health effects.

Tank Mixing: This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this label. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

Annual Maximum Use Rate: The combined total of all treatments must not exceed 10.6 quarts of this product per acre per year.

ATTENTION

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CHOPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

AVDID DRIFT, EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIR-ABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCES-SIVE SPEED OR PRESSURE.

MIXING 11

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

6.0 MIXING

Clean sprayer parts immediately after using this product by thoroughly flushing with water.

NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS VISIBLY MUDDY WATER OR WATER FROM PONDS AND DITCHES THAT IS NOT CLEAR.

6.1 Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the recommended amount of this product near the end of the filling process and mix well. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

6.2 Tank Mixing Procedure

When tank mixing, read and carefully observe label directions, cautionary statements and all information on the labels of all products used. Add the tank-mix product to the tank as directed by the label. Maintain agitation and add the recommended amount of this product.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle,

thorough agitation may be required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

Refer to the "TANK MIXING" section of "GENERAL INFOR-MATION" for additional precautions.

6.3 Mixing for Hand-held Sprayers

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

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1 Gal	2/1 DZ	11/202	2	424		

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			202	Z*/3 QZ	0 72 07	13 02
25 Gal	1 01	1 gr	11/	^ .		1 W D2
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For use in backpack, knapsack, or pump-up sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

6.4 Colorants or Dyes

Agriculturally-approved colofants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilution. Use colorants or dyes according to the manufacturer's recommendations.

MIXING

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7.0 APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAIN-TAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIV-ERING DESIRED VOLUMES.

7.1 Aerial Equipment

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS. RESTRICTIONS AND REDUIREMENTS. This product plus Banvelm of 2,4-0 tank mixtures may not be applied by air in California.

AVOID DRIFT—DO NOT APPLY OURING LOW-LEVEL INVERSION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT IS LIKELY TO CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Avoid direct application to any body of water.

Use the recommended rates of this herbicide in 3 to 25 gallons of water per acre.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Orifi control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Ensure uniform application—To avoid streaked, uneven or overlapped application, use appropriate marking devices.

PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion. To prevent corrosion of exposed parts, thoroughly wash aircraft after each day of spraying to remove residues of this product accumulated during spraying or from spills. Landing gear are most susceptible.

7.2 Ground Broadcast Equipment

Use the recommended rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use that fan nozzles. Check for even distribution of spray droplets.

7.3 Hand-Held and High-Volume Equipment

Apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. On not spray to the point of runoff, Use coarse sprays only. 3,

APPLICATION EQUIPMENT

For control of weeds listed in the "ANNUAL WEEDS" section of "WEEDS CONTROLLED." apply a 0.5 percent solution of this product to weeds less than 6 inches in height or runner length. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1 percent solution. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds.

For best results, use a 2 percent solution on harder-tocontrol perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

For low volume directed spray applications, use a 5 to 10 percent solution of this product for control or partial control of annual weeds, perennial weeds, or woody brush and trees. Spray coverage should be uniform with at least 50 percent of the foliage contacted. Coverage of the top one half of the plant is important for best results. To ensure adequate spray coverage, spray both sides of large or tall woody brush and trees, when foliage is thick and dense, or where there are multiple sprouts.

7.4 Selective Equipment

This product may be applied through recirculating spray systems, shielded applicators, hooded sprayers, wiper applicators or sponge bars after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label.

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation, while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded or hooded applicator directs the herbicide solution onto weeds, while shielding desirable vegetation from the herbicide.

A wiper or sponge applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION AS SERIOUS INJURY OR DEATH IS LIKELY TO OCCUR.

Applicators used above desired vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation. Droplets, mist, toam or splatter of the herbicide solution settling on desirable vegetation is likely to result in discoloration, stunting or destruction.

Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

Shielded and hooded applicators

Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.

Wiper applicators and sponge bars

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if 2 applications are made in opposite directions.

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

APPLICATION EQUIPMENT

APPRICATION EQUIPMENT

Do not use wiper equipment when weeds are wet.

Mix only the amount of solution to be used during a 1-day period, as reduced activity may result from use of lettover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

For Rope or Sponge Wick Applicators—Solutions ranging from 33 to 75 percent of this product in water may be used.

For Porous-Plastic Applicators and pressure-leed systems—Solutions ranging from 33 to 100 percent of this product in water may be used.

When applied as recommended, this product CONTROLS the following weeds:

Corn, volunteer Panicum, Texas Sicklepod Spanishneedles Starbur, bristly

Rye, common Shattercane

When applied as recommended, this product SUPPRESSES the following weeds:

Beggarweed, Florida Bermudagrass Dogbane, hemp Dogfennel Ragweed, common Ragweed, giant Smutgrass Sunflower Thistle, Canada Thistle, musk

Guineagrass Johnsongrass Milkweed Nightshade, silverleaf

Vaseygrass Velvetleaf

Pigweed, redroot

7.5 Injection Systems

This product may be used in aerial or ground injection spray systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. Do not mix this product with the undiluted concentrate of other products

when using injection systems unless specifically recommented

7.6 CDA Equipment

The rate of this product applied per acre by controlled droplet application (CDA) equipment must not be less than the amount recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 3 to 15 gallons of water per acre.

COA equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or destruction is likely to result.

8.0 SITE AND USE RECOMMENDATIONS

Detailed instructions follow alphabetically, by site.

Unless otherwise specified, applications may be made to control any weeds listed in the annual, perennial and woody brush tables. Refer also to the "SELECTIVE EQUIPMENT" section.

8.1 Cut Stumps

Cut stump treatments may be made on any site listed on this label. This product will control many types of woody brush and tree species, some of which are listed below. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut trees or resprouts close to the soil surface. Apply a 50 to 100 percent solution of this product to the freshly-cut surface immediately after cutting. Delays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full leaf expansion.

SITE AND USE RECOMMENDATIONS 17

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SITE AND USE RECOMMENDATIONS 18

Alder Eucalyptus Madione Saltcedar Sweetgum Tan pak

Willow

Oak Reed, giant

DO NOT MAKE CUT STUMP APPLICATIONS WHEN THE ROOTS OF DESIRABLE WOODY BRUSH OR TREES MAY BE GRAFTED TO THE ROOTS OF THE CUT STUMP. INJURY RESULTING FROM ROOT GRAFTING IS LIKELY TO OCCUR IN ADJACENT WOODY BRUSH OR TREES.

8.2 General Noncrop Areas and Industrial Sites

Use in areas such as airports, apartment complexes. Christmas tree farms, ditch banks, dry ditches, dry canals, fencerows, golf courses, industrial sites, lumberyards, manufacturing sites, office complexes, ornamental nurseries, parks, parking areas, petroleum tank farms and pumping installations, railroads, recreational areas, residential areas, roadsides, sod or turf seed farms, schools, storage areas, utility substations, warehouse areas, other public areas, and similar industrial and noncrop sites.

General weed control, Trim-and-edge and Bare ground

This product may be used in general noncrop areas. It may be applied with any application equipment described in this label. This product may be used to trim-and-edge around objects in noncrop sites, for spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

Repeated applications of this product may be used, as weeds emerge, to maintain bare ground.

This product may be tank mixed with the following products. Refer to these products' labels for approved noncrop sites and application rates.

ARSENAL™ PENDULUM™3.3 EC BANVEL PENDULUM WDG BARRICADE™ 65WG PLATEAUM DIURON PRINCEPTM OF **ENDURANCE™** PRINCEP LIQUID **ESCORT™** RONSTAR™ 50 WP GARLON™ 3A **SAHARA™ GARLON 4** SIMAZINE KARMEXTM DE

KARMEXIM DF SURFLANIM
KROVARIM I DF TELARIM
MANAGE® VANOUISHIM
OUST 2,4-D

Banvel and 2,4-0 tank mixtures $\emph{m}\emph{a}\emph{y}$ not be applied by air in California.

When applied as a tank mixture for bare ground, this product provides control of the emerged annual weeds and control or partial control of emerged perennial weeds, woody brush and trees.

For control or partial control of the following perennial weeds, apply 1 to 2 quarts of this product plus 2 to 4 ounces of Dust per acre.

Bahiagrass Fescue, tall
Bermudagrass Johnsongrass
Broomsedge Poorjoe #
Dallisgrass Duackgrass
Dock, curfy Vaseygrass

Doglernel Vervain, blue Chemical mowing—Perennials

This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 8 fluid ounces of this product per acre when treating tall fescue,

SITE AND USE RECOMMENDATIONS 19

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SITE AND USE RECOMMENDATIONS 20

tine lescue, orchardgrass or quackgrass covers. Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass. Apply treatments in 10 to 40 gallons of spray solution per acre.

Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

Chemical mowing -Annuals

For growth suppression of some annual grasses, such as annual ryegrass, wild barley and wild oats growing in coarse turf on roadsides or other industrial areas, apply 4 to 5 fluid ounces of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments may cause injury to the desired grasses.

Dormant turforass

This product may be used to control or suppress many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turl. Treat only when turl is dormant and prior to spring greenup.

Apply 8 to 64 fluid ounces of this product per acre. Apply the recommended rates in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated.

Treatments in excess of 16 fluid ounces per acre may result in injury or delayed greenup in highly maintained areas, such as golf courses and lawns. DO NOT apply tank mixtures of this product plus Oust in highly maintained turfgrass areas. For further uses, refer to the "ROADSIDES" section of this label, which gives rates for dormant bermudagrass and bahigarass treatments.

Actively growing bermudagrass

This product may be used to control or partially control many annual and perennial weeds for effective release of

actively growing bermudagrass. OO NOT apply more than 16 fluid ounces of this product per acre in highly maintained turfgrass areas. OO NOT apply tank mixtures of this product plus OUST in highly maintained turfgrass areas. For further uses, refer to the "ROADSIDES" section of this label, which gives rates for actively growing bermudagrass treatments. Use only in areas where some temporary injury or discoloration can be tolerated.

Turfgrass renovation, seed, or sod production

This product controls most existing vegetation prior to renovating turfgrass areas or establishing turfgrass grown for seed or sod. For maximum control of existing vegetation, delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses such as bermudagrass, summer or fall applications provide the best control. Where existing vegetation is growing under mowing turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow translocation into underground plant parts.

Desirable turfgrasses may be planted following the above procedures.

Hand-held equipment may be used for spot treatment of unwanted vegetation growing in existing turfgrass. Broadcast or hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

Do not feed or graze turfgrass grown for seed or sod production for 8 weeks following application.

SITE AND USE RECOMMENDATIONS 21

Q.3 Habitat Management

Habitat restoration and management

This product may be used to control exotic and other undestiable vegetation in habitat management and natural areas, including rangeland and wildlife refuges. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broad spectrum vegetation control requirements. Spot treatments can be made to selectively remove unwanted plants for habitat management and enhancement.

Wildlife food plots

This product may be used as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage to allow translocation into underground plant parts.

8.4 Injection and Frill (Woody Brush and Trees)

This product may be used to control woody brush and trees by injection or frill applications. Apply this product using suitable equipment which must penetrate into the living tissue. Apply the equivalent of 1 mi of this product per each 2 to 3 inches of trunk diameter at breast height (DBH). This is best achieved by applying a 50 to 100 percent concentration of this product either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frilled or cut areas in species that exude sap freely. In species such as this, make the frill or cuts at an

oblique angle to produce a cupping effect and use a 100 percent concentration of this product. For best results, application should be made during periods of active growth and after full leaf expansion. This product will control many species, some of which are listed below:

Control Partial Control
Oak Black gum
Poplar Dogwood
Sweetgum Hickory
Sycamore Maple, red

8.5 Ornamentals and Plant Nurseries, Christmas Trees

Post-directed, Trim-and-edge

This product may be used as a post-directed spray around established woody ornamental species such as arborvitae, azalea, boxwood, crabapple, euonymus, fir, douglas fir, jojoba, hollies, filiac, magnolia, maple, oak, privet, pine, spruce and yew. This product may also be used to trim and edge around trees, buildings, sidewalks and roads, potted plants and other objects in a nursery setting.

Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established ornamental species.

Site preparation

This product may be used prior to planting any ornamental, nursery or Christmas tree species.

SITE AND USE RECOMMENDATIONS 23

Greenhouse/Shadehouse

This product may be used to control weeds growing in and around greenhouses and shadehouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

8.6 Parks, Recreational and Residential Areas

This product may be used in parks, recreational and residential areas. It may be applied with any application equipment described in this label. This product may be used to trimand-edge around trees, lences, paths, around buildings, sidewalks, and other objects in these areas. This product may be used for spot treatment of unwanted vegetation. This product may be used to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting an area to ornamentals, flowers, turtgrass (sod or seed), or prior to laying asphall or beginning construction projects.

All of the instructions in the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section apply to park and recreational areas.

8.7 Railroads

All of the instructions in the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section apply to railroads.

Bare ground, Ballast and Shoulders, Crossings, and Spot treatment

This product may be used to maintain bare ground on raitroad ballast and shoulders. Repeat applications of this product may be used, as weeds emerge, to maintain bare ground. This product may be used to control tall-growing weeds to improve line-of-sight at railroad crossings and reduce the need for mowing along rights-of-way. For cross-

ing applications, up to 80 gallons of spray solution per acre may be used. This product may be tank mixed with the following products for ballast, shoulder, spot, bare ground and crossing treatments:

ARSENAL ·	KROVAR i D
Banvel	OUST
DIURON	SAHARA
SCORT	SPIKETM
SARLON 3A	TELAR
SARLON 4	2,4-D

Brush control

This product may be used to control woody brush and trees on railroad rights-of-way. Apply 4 to 10 quarts of this product per acre as a broadcast spray, using boom-type or boomless nozzies. Up to 80 gallons of spray solution per acre may be used. Apply a 3/4 to 2 percent solution of this product when using high-volume spray-to-wet applications. Apply a 5 to 10 percent solution of this product when using low volume directed sprays for spot treatment. This product may be mixed with the following products for enhanced control of woody brush and trees:

ARSENAL	GARLON 4
ESCORT	TORDON™
SARLON 2A	· OUDOM ···

Bermudagrass release

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 1 to 3 pints of this product in up to 80 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner tength). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

SITE AND USE RECOMMENDATIONS 25

Bahlagrass Bluestem, silver Fescue, tall Johnsongrass Trumpetcreeper Vaseygrass

This product may be tank-mixed with Oust. If tank-mixed, use no more than 1 to 3 pints of this product with 1 to 2 ounces of Oust per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

Bahiagrass
Blackberry
Bluestem, silver
Broomsedge
Dallisgrass
Dewberry
Dock, curly

Fescue, tali Johnsongrass Poorjoe Raspberry Trumpetcreeper Vaseygrass Vervain, blue

Doglennel

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Repeat applications in the same season are not recommended, since severe injury may occur.

8.8 Roadsides

All of the instructions in the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section apply to roadsides.

Shoulder treatments

This product may be used on road shoulders, it may be applied with boom sprayers, shielded boom sprayers, high-volume off-center nozzles, hand-held equipment, and similar equipment.

Guardraits and other obstacles to mowing

This product may be used to control weeds growing under guardrails and around signposts and other objects along the roadside.

Spot treatment

This product may be used as a spot treatment to control unwanted vegetation growing along roadsides.

Tank mixtures

This product may be tank-mixed with the following products for shoulder, guardrail, spot and bare ground treatments:

BANVEL
DIURON
ENDURANCE
ESCORT
KROVAR I DF
OUST
PENDULUM 3.3 EC

PRINCEP DE

PRINCEP LIQUID RONSTAR 50WP SAHARA SIMAZINE SURFLAN TELAR

PENDULUM 3.3 EC PENDULUM WDG

See the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section of this label for general instructions for tank mixing.

2.4-D

Release of Bermudagrass or Bahiagrass

Dormant applications

This product may be used to control or parlially control many winter annual weeds and tall fescue for effective release of dormant bermudagrass or bahlagrass. Treat only when turf is dormant and prior to spring greenup. This product may also be tank-mixed with Oust for residual control. Tank mixtures of this product with Oust may delay greenup.

For best results on winter annuals, treat when plants are in an early growth stage (below 6 inches in height) after most have germinated. For best results on tall fescue, treat when tescue is at or beyond the 4- to 6-leaf stage.

SITE AND USE RECOMMENDATIONS 27

Apply 8 to 64 fluid ounces of this product per acre alone or in a tank mixture with 1/4 to 1 ounce per acre of Oust. Apply the recommended rates in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. To avoid delays in greenup and minimize injury, add no more than 1 ounce of Oust per acre on bermudagrass and no more than 0.5 ounce of Oust per acre on bahiagrass and avoid treatments when these grasses are in a semi-dormant condition.

Actively growing bermudagrass

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 1 to 3 pints of this product in 10 to 40 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

Bahiagrass Bluestern, silver Fescue, tall Johnsongrass Trumpetcreeper Vaseygrass

This product may be tank-mixed with Oust. If tank-mixed, use no more than 1 to 2 pints of this product with 1 to 2 ounces of Oust per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

Bahiagrass Bluestem, silver Broomsedge Dallisgrass Fescue, tall Johnsongrass Poorjoe Trumpetcreeper

Dock, carry Dogfennet

Vaseygrass Vervain, blue

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Repeat applications of the tank mix in the same season are not recommended, since severe injury may occur.

Actively growing babiagrass

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 6 fluid ounces of this product in 10 to 40 gallons of water per acre. Apply 1 to 2 weeks after full greenup or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 4 fluid ounces of this product per acre, followed by an application of 2 to 4 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

A tank mixture of this product plus-Oust may be used. Apply 6 fluid ounces of this product plus 0.25 ounce of Oust per acre 1 to 2 weeks following an initial spring mowing. Make only one application per year.

9.0 WEEDS CONTROLLED

Always use the higher rate of this product per acre within the recommended range when weed growth is heavy or dense or weeds are growing in an undisturbed (noncultivated) area.

Reduced results may occur when treating weeds heavily covered with dust. For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.

Refer to the following label sections for recommended rates for the control of annual and perennial weeds and woody brush and trees. For difficult to control perennial weeds and woody

WEEDS CONTROLLED

WEEDS CONTROLLED

brush and trees, where plants are growing under stressed conditions, or where infestations are dense, this product may be used at 5 to 10 quarts per acre for enhanced results.

9.1 Annual Weeds

Use 1 quart per acre if weeds are less than 6 inches in height or runner length and 1.5 quarts to 4 quarts per acre if weeds are over 6 inches in height or runner length or when weeds are growing under stressed conditions.

For spray-to-wet applications, apply a 0.5 percent solution of this groduct to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in proadleaf weeds. For annual weeds over 6 inches tall, or for smaller weeds growing under stressed conditions, use a 1 to 2 percent solution. Use the higher rate for tough-to-control species or for weeds over 24 inches tall.

WEED SPECIES

Annoda, spurred Barley* Barnyardgrass* Bittercress* Black nightshade! Bluegrass, annual* Bluegrass, bulbous Bassia, fivehook Brome, downy* Brome, Japanese' Browntop panicum' Buttercup Carolina foxtail*

Carolina geranium Castor bean Cheatgrass'

Cheeseweed (Maha parvillora) Chervil*

Kochia Lambsquarters* Little barley Landon racket* Mayweed Medusahead ' Marningglary (Ipomaea spp.) Mustard blue Mustard, tansy Mustard, tumble*

Mustard, wild* Oats Pigweed * Plains/Tickseed coreopsis

Prickly lettuce: Puncturevine Purstane, common Ragweed, common*

Chickweed: Cocklebur* Copperleat, hophornoeam Corn* Carn speedwell:

Crabgrass* Dwarfdandelion : Eastern mannagrass* Eclipta* Fall panicum.

Falsedandelion* Falseflax, smallseed* Fiddleneck Field pennycress: Filaree

Fleabane, annual* Fleabane, hairy (Conyza bonariensis) Fleabane, rough Florida pustey

Foxtail* Goatgrass, jointed* Goosegrass Grain sorghum (milo)* Groundsel, common

Hemp sesbania Henbit Horseweed/Marestail

(Conyza canadensis) Itchigrass* Johnsongrass, seedling Junglerice Knotweed

Ragweed, glant Red rice

Russian thistle Rya: Ryegrass*

Sandbur, field Shattercane* Shepherd's-purse* Sicklepod

Signalgrass, broadleaf Smartweed, ladysthumb Smartweed, Pennsylvania* Sowthistle, annual Spanishneedles

Speedwell, pursiane Sprangletop* Spurge, annual Spurge, prostrate Spurge, spotted. Spurry, umbrella: Starthistle, yellow Stinkgrass :

Sunflower* Teaweed/Prickly sida Texas panicum Velvetteat

Virginia copperteaf Virginia pepperweed*

Wheat* Wild oats* Witchgrass* Woolly cupgrass* Yellow rocket

When using field broadcast equipment (aerial applications or boom sprayers using flat fan nozzles) these species will be controlled or partially controlled using 1 pint of this product per acre. Applications must be made using 3 to 10

Hand-Held

gailons of carrier volume per acre. Use nozzles that ensure thorough coverage of foliage and freat when weeds are in an early growth stage.

9.2 Perennial Weeds

Best results are obtained when perennial weeds are treated after they reach the reproductive stage of growth (seedhead initiation in grasses and bud formation in broadleaves). For non-flowering plants, best results are obtained when the plants reach a mature stage of growth. In many situations, treatments are required prior to these growth stages. Under these conditions, use the higher application rate within the recommended range.

Ensure thorough coverage when using spray-to-wet treatments using hand-held equipment. When using hand-held equipment for low volume directed spot treatments, apply a 5 to 10 percent solution of this product.

Allow 7 or more days after application before tillage.

Weed Species

:	(QT/A)	% Solution	_
Alfalfa"	1	2	
Alligatorweed*	4	1,5	
Anise (lennel)	2-4	1-2	
Bahiagrass	3-5	2	
Beachgrass, European	_	5 .	
(Ammophila arenaria)	4.5		
Bentgrass*	1.5	2	
Bermudagrass	· 5	2	
Bermudagrass, water	1.5	2	
(knotgrass)	4-5	2 2	
Bindweed, field Bluegrass, Kentucky	2	2	
Blueweed, Texas	4-5	2	
Brackentern	3-4	1-1.5	
•	•		
Bromegrass, smooth	2	2	
Bursage, woolly-leaf	·	2	
Canarygrass, reed	2-3	2	
Cattai)	3-5	2	
Clover; red, white	3-5	2 2 2	
Cogongrass	3-5	2	
Dallisgrass Dandelion	3-5	2 2 2	
Dock, curty	- 3-5	2	
Dogbane, hemp	3-5	2	
Fescue (except tall)	4	2	
Fescue, tall	3-5 1-3	2	
German ivy	2-4	2	
Guinaagrass	3	1-2 1	
Horsenettle ·	3 . 5	2	
Horseradish	4	2	
Iceplant	ż	1.5-2	
Jerusalem artichoke	3-5	2	
Johnsongrass	2-3	ī	
Kikuyugrass	2-3	2	
Khapweed Lantana	4	2	
Lespedeza		1-1.25	
Milkweed, common	3-5	2	
Muhly, wirestem	3	2	
Mullein, common	2	2	
Napiergrass	3-5	2	
Nightshade, silverteat	3-5	2	
Nutsedge; purple, yellow	3 ·	2	
Orchardgrass	2	1-2	
Pampasgratss	3 -5	2	
Paragrass 22sigoro	3.5	1.5-2 2	
Pepperweed, perennia!	4	2	
'nragmites"	3-5	1-2	
Poison hemlock	2-4	1-2	
luackgrass	. 2-3	2	
Redvine*	2	2	
WEEDS SOUTON			

WEEDS CONTROLLED

WEEDS CONTROL		34
Weed Species	Rate (OT/A)	Hand-Held % Solution
Reed, giant	4-5	2
Ryegrass, perennial	2-3	1
Smartweed, swamp	3-5	2
Spurge, leafy	_	2
Sweet potato, wild*	_	2
Thistle, artichoke	2-3	1-2
Thistle, Canada	2-3	2
Timothy	2-3	2 .
Torpedograss*	4-5	2
Trumpetcreeper*	2-3	2
Vaseygrass	3-5	2
Velvetgrass	3-5	2
Whealgrass, western	2-3	2

^{*}Partial control

9.3 Woody Brush and Trees

Apply this product after full leaf expansion, unless otherwise directed. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation.

In arid areas, best results are obtained when applications are made in the spring to early summer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using spray-to-wet treatments using hand-held equipment. When using hand-held equipment for low volume directed-spray spot treatments, apply a 5 to 10 percent solution of this product.

Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants

regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

Weed Species	Broadcas Rate (OT/A)	St Hand-Held Spray-to-Wet % Solution
Alder	3-4	1-1.5
Ash*	2-5	1-2
Aspen, quaking	2-3	1-1.5
Bearclover (Bearmat)*	2-5	1-2
Beech*	2-5	1-2
Birch	2	1
Blackberry	3-4	•
Blackgum	2-5	1-1.5
Bracken	2-5	1-2
Broom; French, Scotch	2-5	1-2
Buckwheat, California*	2-4	1.5-2
Cascara*	2-5	1-2
Calsclaw*	Z-J	1-2
Ceanothus*	2-5	1-1.5
Chamise*	2-5 2-5	1-2
Cherry; bitter, black, pin	2-3	1
Coyole brush	2-3 3-4	1-1.5
Deerweed	3-4 0-5	1.5-2
Dogwood*	2·5 2-5	1
Elderberry	2-3	1-2
Elm*		1
Eucalyptus	2-5	1-2
Gorse*		2
Hasardia*	2.5	1-2
Hawthorn	2-4	1-2 ,
Hazel	2-3	1-1.5
lickory"	2	1
foneysuckte	2-5	1-2
fornbeam, American*	3-4	1-1.5
The second of the second	2-5	1-2

WEEDS CONTROLLED

WEEDS CON				<u>. 36</u>
Weed Species		Broadcast Rate	Spray-	In-Was
Kudzu		(QT/A)	% Solu	tion
Locust, black		4	2	
Madrone resprouts	-	?-4	1-2	
manzanna.	-		2	
Maple, red			1-2	
Maple, sugar	2	-4	1-1.5	
Monkey flower	2.		1-1.5	
Dak; black, white	2.	, '	-2	
Oak, post	3-	, '	-2	
Oak, northern, pin	2.4	, ,	-1.5	
Oak, Scrub	2-4	, '	1.5	
Oak; southern red			1.5	
Peppertree Brazilian	2-3	,	1.5	
(Florida holly)	2-5	1-,	2	
Persimmon*	3.5			
Poines :	2.5	1-2		
Poison (vy	2-5 4-5	1-2	!	
Poison oak	4-5 4-5	2		
Poplar, yellow-	2-5	2		
Redbud, eastern	2.5	1-2		
Rose, multiflora Russian olive	2.3	1-2		
Sage, black	2-5	1		
Sage, white.	2-4	1-2		
Sage brush o	2-4	1		
Sage brush, California Salmonberry	2.4	1-2		
Saltcedar •	2	1		
Sassairas -	2-5	1		
Sontwood.	2-5	1-2		
Sumac; laurel, poison,	2-5	1.2		
	2-4	1-2		
smooth, sugaroush, winged Sweetgum		1-2		
Swordfern*	2-3	1-1.5		
	2-5	1-2		j
•		1-2		ļ.
T				[
Talloviree, Chinese				Ē.
Tan oak resprouts Thimblehees				í.
Thimbleberry		1		1.
rovatro trass	2	2		
	2-4	1		} ~
Trumpetcreeper	`	1-2		. 5
Vine maple		2		-16
(#UIG12 Ass.)	2.5	1-1.5		A CANADA
	2.6	-2		[j.]
Phaese -	-5	-2		13
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artial control	. 1			i.

.0 LIMIT OF WARRANTY AND LIABILITY

Monsanto Company warrants that this product conforms to the chemical description on the label and is reasonably lit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABIL-ITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation

This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company's stewardship requirements and with express written permission from this Company.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CON-TRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PROD-UCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE. REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAM-

Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

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Este producto está prolegido por la patente de los Estados Unidos Nº 4,405,531 y por la patente de los Estados Unidos Nº 5,703,015. Otras patentes están pendientes. No se han otorgado licencías bajo ninguna patente que no sea de los Estados Unidos.

Registro en la EPA Nº 524-475

En caso de que se presente una emergencia relacionada con este producto, flame por cobrar a cualquier hora del día o de la noche, al telétono (314)-694-4000.

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MITTER OF STREET

In case of an emergency involving this product. Call Collect, day or night, (314) 694-4000.

27A-ASS, No. 524-475

This product is protected by U.S. Patent No. 4,405,531 and by U.S. Patent No. 5,703,015. Other patents pending. No license granted under any non-U.S. patent(s)

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El herbicida profesional completo de postemergencia y de amplia efectividad, para el control de malezas en zonas industriales, cespedes y ornamentales.

Instrucciones completas para el uso

Registro en la EPA Nº 524-475

EVITE EL CONTACTO DEL HERBICIDA CON EL FOLLAJE, TALLOS VERDES, RAICES NO LEÑOSAS EXPUESTAS O FRUTOS EXPUESTOS DE LAS COSECHAS, PLANTAS Y ARBOLES DESEABLES. EN CASO CONTRARIO ES PROBABLE QUE SUFRAN GRAVES DAÑOS O SEAN DESTRUIDOS TOTALMENTE.

Roundup Pro es una marca registrada y Monsanto y el su logo son marcas de la Compañía Monsanto.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

DEC 2 9 2000

Ms. Annette M. Kirk Monsanto Company 600 13th Street, NW Suite 660 Washington, DC 20602

Dear Ms. Kirk:

Subject: Roundup Ultra Herbicide (Revise Postemergence Applications to Canola with the Roundup Ready Gene)

EPA Registration No. 524-475

Your Application Dated November 10, 2000

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable. The amended labeling supercedes all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Supplemental labels must be incorporated into a master label and a copy of the master label submitted to the Agency for our records at the next printing or within 24 months of the date of acceptance whichever comes first. The Agency will consider convincing arguments as to why supplemental labeling should not appear on a master label on a case by case basis.

Sincerely,

Junes A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.

ROUNDUP ULTRA

Herbicide by Monsanto

EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

ACCEPTED

DEC 2 9 2005

Under the Pederal Insectioids, Fungicids, and Rodenticide Act, as amended, for the pesticide registered under SDA Reg. No. 424-475

FOR CANOLA WITH THE ROUNDUP READY® GENE

Keep out of reach of children. CAUTION!

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

GENERAL INFORMATION MONSANTO COMPANY RECOM-MENDS USE OF THIS PRODUCT ONLY ON CANOLA WHICH CON-TAINS THE ROUNDUP READY® GENE. DO NOT USE THIS PRODUCT ON CANOLA WITH THE ROUNDUP READY GENE PLANTED IN THE FOLLOWING STATES: ALABAMA. DELÀWARE, FLORIDA, GEORGIA, KENTUCKY, MARYLAND, NEW JER-SEY, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA AND WEST VIRGINIA.

Applying this product to canola which is not designated as Roundup Ready will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops, or any desirable plants which do not contain the Roundup Ready gene since severe injury or destruction will result.

The Roundup Ready designation indicates the canola contains a patented gene which provides tolerance to this herbicide. Information on Roundup Ready canola may be obtained from your seed supplier or Monsanto representative.

USE RECOMMENDATIONS

This product will control many troublesome emerged weeds when applied preplant, preemergent and/or with overthe-top applications in Roundup Ready canola. Allow a minimum of 60 days between last application and canola harvest.

Maximum Allowable Combined Application Quantities Per Season:

- Preplant and preemergence applications 2 quarts/A
- Total in-crop application from emergence to 6 leaf 1 quart/A

For ground applications with broadcast equipment, apply this product in 5 to 20 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment use flat fan nozzles. Check for even distribution of spray droplets.

For aerial applications apply this product in 3 to 15 gallons of water per acre.

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE. DO NOT APPLY DURING LOW-LEVEL INVER-SION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED JO WHICH TREATMENT IS NOT IN-TO PREVENT INJURY TO TENDED. ADJACENT **DESIRABLE** VEGETA-TION. APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

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Coarse sprays are less tikely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

There are no rotational crop restrictions following applications of this product.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product to Roundup Ready canola. Follow the cleaning procedures specified on the label of the product(s) previously used. Canola can be very sensitive to many herbicides at extremely low concentrations and care should be taken to thoroughly clean all equipment prior to use.

Preplant or Preemergent applications: This product may be applied by aerial or ground application equipment prior to planting or emergence of canola. The maximum combined application rate from all preplant and preemergent applications should not exceed 2 quarts per acre per season.

NOTE: In no-till and stale seedbed systems, always use a burndown treatment to control existing weeds before canola emerges. Apply a preplant burndown treatment of 16 to 32 fluid ounces per acre of this product.

Over-the-top applications: This product may be applied by aerial or ground application equipment postemergence to Roundup Ready canola from emergence through the six leaf stage of development. Applications made during bolting or flowering may result in crop injury and yield loss. To maximize yield potential, make applications early to eliminate competing weeds.

Single Application - Apply 16 to 24 ounces per acre no later than the 6-leaf stage for the control of annual weeds. Avoid overlapping applications which may result in temporary yellowing, delayed flowering, and or growth reduction. Similar injury may result when applications of more than 16 ounces per acre are applied after the 4-leaf stage.

Sequential Applications - Apply 16 ounces per acre to 1-3 leaf canola followed by a sequential application at a minimum interval of 10 days, but no later than the 6-leaf stage. Sequential applications are recommended for early emerging annual weeds and perennial weeds such as Canada thistle and quackgrass.

This product will control or suppress, most perennial weeds. For some perennial weeds, repeat applications may be required to eliminate crop competition throughout the growing season.

No more than two over-the-top broadcast applications may be made from crop emergence through the 6-leaf stage of development and the total incrop application should not exceed 32 ounces per acre. Weeds controlled. For specific rates of application and instructions for control of various annual and perennial weeds, refer to the Roundup Ultra herbicide label booklet.

Tank mixtures with other herbicides, insecticides, or fungicides may result in reduced weed control or crop injury and are not recommended for over-the-top applications of this product.

Some weeds with multiple germination times or suppressed (stunted) weeds may require sequential applications of this product for control. The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin run" seed saved from previous year's production and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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Yease read <u>instructions</u>	on reverse befor	re completing	form.

United States

Form Approved.	OMB No. 2070-0080
	Registration
х	Amendment
	Other

OPP Identifier Number

SEPA	Environmental Protect Washington; DC	_	ency	x	Amendme Other	ent	268224
_	Applica	tion for	Pesticide -	Section	l		
1. Company/Product Numbe	524-475	-	2. EPA Produc	t Managar mes Tompl	kins	١,	posed Classification
4. Company/Product (Name) Roundup	Ultra Herbicide		PM#	25	· .	X	None Restricted
Washington,	pany eet, N.W. Suite 660		(b)(i), my pro to:	nduct is simi		ıl in con	FIFRA Section 3(c)(3) inposition and labeling
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Revised	d supplemental label ola with the Roundup	for post Ready Ge	cemergence ene	applicat	tions		.:
·	·	Sec	tion - III				
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1. Contact Point (Complete	items directly below for identific	etion of indiv	ridual to be cont	acted, if nece	essery, to proce	ess this	epplication.)
Neme Dr. Mar	sha Gray	Title R	egistratio	n Manage	>r	,	No. (Include Area Code) 783-2460
i	ments I have made on this form a y knowingly false or misleading s			-	•		3 One Application Received (Stamped)
2. Signature	oM. Lux	3. Title	egistratio	n Manage	r		1/10
4. Typed Name Annett	e M. Kirk	5. Date	November	10, 200	00		167

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, end use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). Ilf not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 3.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to smend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, past or crop (specify)"; "armend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Cantalian Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Fixe(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Lirections Indicate the location of the use directions for your product,
- 6. Missiner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, *me-toc,* reregistration, etc.

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1-5. Self-explanatory.

6. EPA Use Only.



MONSANTO COMPANY
600 13th STREET, MW
SUITE 000
WASHINGTON, D.C. 20005
http://www.monsanto.com

November 10, 2000

Hand Delivered

Document Processing Center (AMEND)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup® Ultra Herbicide; EPA Reg. No. 524-475

Revised Supplemental Label for Postemergence

Applications to Canola with the Roundup Ready® Gene

Dear Mr. Tompkins:

Monsanto is submitting for Agency review and approval a revised supplemental label for the use of Roundup Ultra Herbicide over the top of Roundup Ready® Canola.

Changes to this label from the previous version include the following:

- Use recommendations are now broken out separately for a single application program and sequential applications.
- The recommended maximum single over-the-top application rate has been increased to allow 24 ounces per acre. The total maximum in-crop application rate remains unchanged at 32 ounces per acre.
- Based on recent Monsanto field information, additional cautionary statements have been added regarding the potential for crop injury.

Five (5) copies of this revised supplemental label are enclosed.

If you have any questions on this matter please feel free to contact me through Dr. Marsha C. Gray or directly at 314-694-8890.

Sincerely,

Annette M. Kirk

Gruetto M. V.

Registration Manager

cc:

M. C. Gray

D. Fee-White

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Supplemental	label for aer	ial treat	ments	in Cal	ifornia					-	
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Neme Dr. Marsha C	Gray		Title Reg	gistrat	ion Man	ageı				No. (In	ciude Area Code) 460
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Please read instructions on reverse before completing form.

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

Form Approved. OMB No. 2070-0060



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

DEC 2 9 2000

Mr. Stephen J. Wratten Monsanto Company 600 13th Street, NW Suite 660 Washington, DC 20602

Dear Mr. Wratten:

Subject: Roundup Ultra Herbicide (Aerial Application In California))

EPA Registration No. 524-475

Your Application Dated November 6, 2000

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable. The amended labeling supercedes all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Supplemental labels must be incorporated into a master label and a copy of the master label submitted to the Agency for our records at the next printing or within 24 months of the date of acceptance whichever comes first. The Agency will consider convincing arguments as to why supplemental labeling should not appear on a master label on a case by case basis.

Sincerely,

James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

SUPPLEMENTAL LABELING

READ AND FOLLOW THE ENTIRE LABEL FOR ROUNDUP ULTRA [®] HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.

Roundup Ultra logo

EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

FOR AERIAL APPLICATION IN CALIFORNIA ONLY.

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of the herbicide application.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for essential product information.

See the "CROPS" section of the label booklet for specific recommendations on the use of this product.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF THE SPRAY WITH FOLIAGE, GREEN STEMS, OR FRUIT OF DESIRABLE CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY[®] CROPS), PLANTS, TREES OR OTHER DESIRABLE VEGETATION, SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

Aerial applications of this product are allowed in the following situations:

- In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops.
- 2. In alfalfa and pasture renovation applications.
- Over-the-top applications in Roundup Ready com and cotton. Refer to the supplemental labels for Roundup Ready com and Roundup Ready cotton for specific application instructions for over-the-top applications in these crops.
- 4. Preharvest in alfalfa, corn, cotton, wheat, Roundup Ready corn and Roundup Ready cotton. Refer to the Roundup Ultra® herbicide booklet or supplemental label for Roundup Ready corn and Roundup Ready cotton for specific preharvest application instructions for each individual crop.

Do not plant subsequent crops other than those listed in the label booklet for 30 days following application.

When applied as recommended under the conditions described, this product controls annual and perennial weeds listed in the label booklet.

When tank mixing this product with 2,4-D for aerial applications, only 2,4-D amine formulations may be used. This tank mixture may be used for fallow and reduced tillage systems and alfalfa and pasture renovation applications only.

DO NOT EXCEED A MAXIMUM RATE OF 2 QUARTS PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN FALLOW AND REDUCED TILLAGE SYSTEMS AND ALFALFA AND PASTURE RENOVATION APPLICATIONS.

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN ALFALFA, CORN, COTTON, WHEAT, ROUNDUP READY CORN AND ROUNDUP READY COTTON PRIOR TO HARVEST. THIS RESTRICTION ALSO APPLY'S TO OVERTHE-TOP APPLICATIONS IN ROUNDUP READY CORN AND COTTON.

Aerial Equipment

Use the recommended rates of this product in 3 to 15 gallons of water per acre. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

AVOID DRIFT—DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Use the following guidelines when aerial applications are made near crops or desirable perennial vegetation after bud break and before total leaf

drop, and/or near other desirable vegetation or annual crops.

- Do not apply within 100 feet of all desirable vegetation or crop(s).
- If wind up to 5 miles per hour is blowing toward desirable vegetation or crop(s), do not apply within 500 feet of the desirable vegetation or crop(s).
- Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet.
- Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the air-stream and do not increase spray volume by increasing nozzle pressure. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive tabel.

Ensure uniform application—To avoid streaking, uneven, or over-lapped application, use appropriate marking devices. Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR IS MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label for Roundup Ultra herbicide before using this product. Those terms apply to this supplemental labeling and if those terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

ACCEPTED

DEC 2 9 2000

Under the Pederel Insecticide, Punglede, and Roderstoide Act, as amended, for the pesticide registered under EPA Reg. No. 524-475

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COA Perm 4470-13 (3-71)

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		Application	on for Pestic	ide - Sectio	n I		<u> </u>	_	
1. Company/Product Number 524-475				Product Manager James Tow		3. Proposed Classification			
4. Company/Product (Name) Roundup Ultra Herbicide			PM#	25		None Restricted			
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address			6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No.						
	2 2 7,000,000		Section -	uct Name				_	
Amendment - Explain Resubmission in res	sponse to Agency lette	r dated		Final printed lat Agency letter d "Me Too" Appli Other - Explain	ated cation.	e to		<u>-</u>	
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3. Location of Nat Contents	s Information	4, Size(s) Re	tail Container	5.1	Location of Lal		ns	-	
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1. Contact Point (Complet	e items directly below	for identification	on of individual to	be contacted, if n	ecassary, to ju	ocuss this	application.)	_	
Name Dr. Marsha	Gray		Tide Registra	ation Manage	er .		Na. (Include Area Code) 783-2460		
	sements I have made or any knowingly false or a		all attachments t				6. Date Application Received (Stamped)	_	
2. Signature	Whate		3. Tide Manage	er, Registra	ations		ゆカ ン	,	
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Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a
 basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- Proposed Classification Specify the proposed classification of this product.
- 4 Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person end address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of enother party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 5. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registration, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for aregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for egistration.

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ECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new restration or applicable amendments.

- . Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types, indicate the size of the individual packets and number per retail container.
- . Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents Indicals the location of the net contents information for your product.
- . Size(s) of Retail Contriner Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product,

Manner in which label is affixed to product - indicated the method product label is attached to ratell container.

ECTION IV (Contect Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, submission, "ma-too," reregistration, etc.

Self-explanatory.
 EPA Use Only.

MONSANTO COMPANY
600 13TH STREET, NW
SUITE 660
WASHINGTON, D.C. 20005
http://www.monsanto.com

November 6, 2000

Document Processing Center (AMEND) Office of Pesticide Programs (7504C) U. S. Environmental Protection Agency Room 266A, Crystal Mall #2 1921 Jefferson Davis Highway Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup Ultra herbicide (EPA Reg. No. 524-475)

Supplemental Label for Aerial Treatments in CA

Dear Mr. Tompkins:

As you know, the State of California requires additional label instructions for aerial application of glyphosate herbicides to reduce the possibility for spray drift. Monsanto has adopted certain voluntary limitations of rates and use sites for aerial treatments in California in accordance with these stewardship goals. For Roundup Ultra herbicide, the present CA Aerial supplemental labeling was notified to the Agency on 12-Oct-1999, and Final Printed Labeling responsive to that notification was submitted to EPA in a letter dated 4-Jan-2000. In addition to the rate limitations imposed by the CA-specific aerial supplemental labeling, the product's main booklet labeling (Section 7.1 provides a general upper limit on aerial treatments of 1 quart per acre unless otherwise instructed; the CA-specific aerial label is considered to fall under this "otherwise instructed" clause.

At this time, due primarily to competitive pressures from other glyphosate brands, Monsanto desires to amend these California-specific instructions to allow added use sites with maximum aerial application rates of either 1 or 2 quarts per acre. All of the Mr. Tompkins Page 2 6-Nov-00

proposed changes are within the range of sites and rates that are presently approved for ground application in the product's main booklet labeling. Obviously, implementation of these initiatives will require the approval of CA DPR, which is underway.

The changes are:

- 1. Add alfalfa, corn, cotton, and wheat as allowed use sites, either for in-crop treatments on Roundup Ready varieties where applicable or during preharvest timings. (Cotton was already labeled for aerial preharvest treatments.)
- 2. Add pasture and alfalfa renovations.
- 3. Added sentence to limit 2,4-D tank mixes to be used only in fallow, reduced tillage, alfalfa, and pasture renovation sites.

If you have any questions on this matter please feel free to contact me through Dr. Marsha C. Gray (202-383-2878) or by direct phone (314-694-1582), fax (314-694-4028), or electronic mail at stephen.j.wratten@monsanto.com.

Sincerely,

Stephen J. Wratten
Manager, Registrations

cc: M. C. Gray

Ultra CA aerial.doc

MONSANTO COMPANY 600 13TH STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005

Tel: (202) 783-2460 Fax: (202) 785-2468

November 29, 2000

Office of Pesticide Programs (7504C)
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Preharvest Applications in Alfalfa

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label for Roundup-Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y2-22) for the above use. This supplemental was approved by the EPA on July 20, 2000.

"This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

If you have any questions regarding this submission, please feel free to contact me through Dr. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

CC:

M. Gray

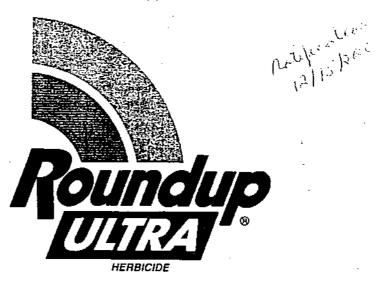
S. Wratten

Debre Hend

SUPPLEMENTAL LABELING -

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

FOR PREHARVEST APPLICATIONS IN ALFALFA.

Keep out of reach of children. CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

RECOMMENDATIONS

This product may be used in declining alfalia stands or any stand of alfalia where crop destruction is acceptable. This product will control labeled annual and perennial weeds, including quackgrass, when applied prior to the harvest of alfalia.

The treated crops and weeds can be harvested and fed to livestock. Allow a minimum of 36 hours between application and harvest.

Use up to 2 quarts of this product per acre. Applications may be made at any time of the year. Make only one application to an existing stand of alfalfa per year.

For control of quackgrass, apply in the spring, late summer, or fall when quackgrass is actively growing. Control in western locations may require deep tillage following application.

For control of alfalfa, deep tillage may be required in western locations if alfalfa is drought stressed.

Do not use for alfalfa grown for seed.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

21137Y2-22

\$EPA	Washington, DC 20460					Amendment Other			OPP Identifier Number	
Application for Pesticide - Section I										
1. Company/Product Number 524-475				2. EPA Product Manager Mr. James Tompkins				3. Pre	. Proposed Classification X None Restricted	
4. Company/Product (Name) Roundup Ultra Herbicide				PM# 25						
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address				6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name						
Section - II										
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.				X Final printed labels in response to Agency letter dated 7/20/2000 "Me Too" Application. Other - Explain below.						
Explanation: Use additional page(s) if necessary. (For section I and Section II.) Print Plate No. 21137Y2-22										
	 :		Secti	ion - III						
1. Material This Product Will	Be Packaged In:	·								
Child-Resistant Packaging Yes* No Certification must be submitted	Yes [Yes No as" No. per age wgt			2. Type of Container Metal Plestic Glass Paper Other (Specify)			
3. Location of Net Contents I	nformation onteiner	4. Size(s) Reta	sil Contain	1 9 r -		5. Lo	On Label		ns panying product	
6. Manner in Which Label is .	Affixed to Product	Lithogr Paper (Stencil	glued ed	· ·	Other					
Section - IV										
1. Contact Point (Complete	tems directly below for	or identification	of individ	duel to be	contacted,	if nec	essery, to pro	cess this	application.)	
Name Title Pr. Marsha Gray R				■				No. (Include Area Code)) 783-2460		
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. 6. Date Application Received (Stamped)										
2. Signature	butter	.]	3. Title	Regi	stration	n Sp	ecialist			
1. Typed Name 5 Debra Hinton				November 29, 2000					(1)	

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1 Certification with Respect to Citation of Date (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

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SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter. For notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

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- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.

 Indicate the size of the individual packets and number per retail container.
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- 3. Location of Net Contents Indicate the location of the net contents information for your product.
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- 1-5. Salf-explanatory.
- 6. EPA Use Only.

SEPA	United States Environmental Protection Washington, DC 204	_	псу	Registration Amendme x Other		OPP Identifier Number 268165
Application for Pesticide - Section I						
Company/Product Num	524-475		2. EPA Product Mane Mr. James To	age <i>r</i>		posed Classification None Restricted
	Ultra Herbicide		2.	5		
Monsanto Comp 600 13th Stre Washington, D	et, N.W., Suite 660		(b)(i), my product is to: EPA Reg. No Product Name _	s similar or identica		FIFRA Section 3(c)(3) inposition and labeling
	•	Sect	tion - !!	<u> </u>	KILL	reinatifiki
Resubmission in re	Amendment - Explain below. Resubmission in response to Agency letter dated					
planation: Use additional page(s) if necessary. (For section I and Section II.) Revise expiration date Print Plate No. 21137Y5-20 Section - III						
Material This Product V	Vill Be Packaged In:		_			
No Certification must a submitted	Unit Peckeging Yes No No If "Yes" Unit Peckeging wgt. Container			P	ntsiner fotel lestic less eper ther (S;	pecify)
Label Label	Label Container S. Location of Label Directions On Label On Labeling accompanying product					
Manner in Which Lebel is Affixed to Product Lithograph Paper glued Stenciled						
Section - IV						
Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)						
Dr. Marsh	a Gray	Titte Reg	istration Mana		•	No. (Include Area Code) 783-2460
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complets. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. 6. Date Application Received (Stamped)						
	be Histon	3. Title	Registration	n Specialist.		180
<u> </u>	a Hinton	5. Data	October 6	, 2000		
Form 8570-1 (Rev. B-	94) Previous editions are obsolete.		White	te - EPA File Copy for	iginal)	Yellow - Applicant Copy

ease read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060

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- 1-5. Self-explanatory.
- 6. FPA Use Delu



READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



NOTIFICATION
NOV 0 1 2003

EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

FOR COTTON WITH THE ROUNDUP READY® GENE IN-CROP APPLICATIONS

Keep out of reach of children.

CAUTION!

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

General information

ATTENTION: MONSANTO RECOMMENDS THIS PROUCT FOR USE ONLY OVER-THE-TOP OF OR DIRECTED ONTO IMPROVED COTTON VARIETIES THAT ARE DESINATED AS COTTON WITH THE ROUNDUP READY® GENE. SEVERE INJURY OR DEATH OF COTTON WILL RESULT IF ANY COTTON VARIETIES NOT PROPERLY DESIGNATED AS HAVING THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, OR ANY DESIRABLE PLANTS AND TREES, OTHER THAN CROPS WITH THE ROUNDUP READY GENE, SINCE SEVERE INJURY OR DESTRUCTION WILL RESULT.

ROUNDUP READY COTTON VARIETIES MUST BE PURCHASED FROM AN AUTHORIZED LICENSED SEED

SUPPLIER THE DESIGNATION, "ROUNDUP READY", INDICATES THE COTTON VARIETY CONTAINS A PATENTED PROPRIETARY TRAIT.

Application Instructions

This product will control many troublesome weeds with overthe-top, post-directed, hooded sprayer, or preharvest applications in Roundup Ready cotton.

Maximum Allowable Yearly Rates

1.	Combined total per year for all	8 quarts/A
	applications.	
2.	Preplant, Preemergence applications.	5 quarts/A
3.	Total in-crop applications from	4 quarts/A
	cracking to lay-by.	64.60000

4. Maximum preharvest application rate. 2 quarts/

For ground applications with broadcast equipment, apply this product in 5 to 20 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to accid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

For aerial applications, apply this product in 3 to 15 gallons of water per acre.

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR. AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE. Do not apply during low-level inversion conditions, when winds are gusty or under any other conditions which favor drift. Drift may cause damage to any vegetation contacted to which treatment is not intended. To prevent injury to adjacent desirable vegetation, appropriate buffer zones must be maintained.

There are no rotational crop restrictions following applications of this product.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product to Roundup Ready cotton. Follow the cleaning procedures specified on the label of the product(s) previously used. Cotton is very sensitive to many herbicides at extremely low concentrations and care should be taken to thoroughly clean all equipment prior to use.

In addition to uses listed in the Roundup Ultra® herbicide label booklet, the following applications can be made:

Over-the-top applications: This product may be applied by aerial or ground application equipment postemergence to Roundup Ready cotton from the ground cracking stage until the four leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). Over-the-top applications made after the four leaf (node) stage of development may result in boll loss, delayed maturity and/or yield loss. Any single over-the-top broadcast application should not exceed 1 quart per acre. No more than two over-the-top broadcast applications may be made from crop emergence through the four leaf (node) stage of development. Sequential over-the-top applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

NOTE: Always plant into a weed free seedbed. In no-till and stale seedbed systems, always burn down existing weeds before cotton emerges. Apply a preplant burndown treatment of 16-48 fluid ounces per acre of this product.

Post-Directed Or Hooded Applications: This product may be applied using precision post-directed or hooded sprayers to Roundup Ready cotton through lay-by. At this stage, postdirected equipment should be used which directs the spray to the base of the cotton plants. Contact of the spray with cotton leaves should be avoided to the maximum extent possible. To minimize spray onto the leaves of the cotton plants, place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact weeds in the row, and maintain low spray pressure (less than 30 PSI). For best results, make applications while weeds are small (less than 3 inches). Any single post-directed application should not exceed 1 quart per acre of this product. No more than two applications should be made from the fifth leaf through lay-by. Sequential in-crop applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

ATTENTION: USE OF ROUNDUP ULTRA HERBICIDE IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COTTON, HOWEVER, VARIOUS ENVIRONMENTAL

CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS MAKE IT IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.

Salvage Treatment: This treatment may be used after the four leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. One quart per acre may be applied either as an over-the-top applications or as a post-directed treatments sprayed higher on the cotton plants and over the weeds. NOTE: SALVAGE TREATMENTS WILL RESULT IN SIGNIFICANT BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS. NO MORE THAN ONE SALVAGE TREATMENT SHOULD BE USED PER GROWING SEASON.

Weeds Controlled: For specific rates of application and instructions for control of various annual and perennial weeds, refer to "ANNUAL WEEDS RATE TABLE" section of the label booklet. Roundup Ultra herbicide applied at 1 quart per acre will burndown or suppress the growth of the following perennial weeds and reduce crop competition: yellow and purple nutsedge, rhizome johnsongrass, common bermudagrass, silverleaf nightshade, trumpet creeper, and redvine. Fall preharvest applications may be required for control of these perennial weeds.

Tank mixtures with other herbicides may result in reduced weed control or crop injury and are not recommended for over-the-top applications of this product.

Some weeds with multiple germination times or suppressed (stunted) weeds may require sequential applications of this product for control.

Preharvest Applications: This product may be applied for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton after 20% boll crack. Allow a minimum of 7 days between application and harvest. For specific recommendations refer to the "COTTON" section of the Roundup Ultra herbicide label booklet. NOTE: Roundup Ultra herbicide will not enhance the performance of harvest aids when applied to Roundup Ready cotton. DO NOT APPLY ROUNDUP ULTRA HERBICIDE PREHARVEST TO CROPS GROWN FOR SEED.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin-run" seed saved from previous year's production and replented. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 Monsanto Company ST. LOUIS, MISSOURI 63167

This supplemental label will expire on April 1, 2002.

21137Y5-20

3/2/1998



READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.

NOTIFICATION

NOV 0 1 200J



EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

FOR COTTON WITH THE ROUNDUP READY® GENE IN-CROP APPLICATIONS

Keep out of reach of children.

CAUTION!

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

General Information

ATTENTION: MONSANTO RECOMMENDS THIS PROUCT FOR USE ONLY OVER-THE-TOP OF OR DIRECTED ONTO IMPROVED COTTON VARIETIES THAT ARE DESINATED AS COTTON WITH THE ROUNDUP READY® GENE. SEVERE INJURY OR DEATH OF COTTON WILL RESULT IF ANY COTTON VARIETIES NOT PROPERLY DESIGNATED AS HAVING THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, OR ANY DESIRABLE PLANTS AND TREES, OTHER THAN CROPS WITH THE ROUNDUP READY GENE, SINCE SEVERE INJURY OR DESTRUCTION WILL RESULT.

ROUNDUP READY COTTON VARIETIES MUST BE PURCHASED FROM AN AUTHORIZED LICENSED SEED

SUPPLIER THE DESIGNATION, "ROUNDUP READY", INDICATES THE COTTON VARIETY CONTAINS A PATENTED PROPRIETARY TRAIT.

Application Instructions

This product will control many troublesome weeds with overthe-top, post-directed, hooded sprayer, or preharvest applications in Roundup Ready cotton.

Maximum Allowable Yearly Rates

Combined total per year for all	8 quarts/A
applications.	
Preplant, Preemergence applications.	5 quarts/A
Total in-crop applications from	4 quarts/A
cracking to lay-by.	
4. Maximum preharvest application rate.	2 quarts/A

For ground applications with broadcast equipment, apply this product in 5 to 20 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

For aerial applications, apply this product in 3 to 15 gallons of water per acre.

DO NOT EXCEED A. MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR. AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE. Do not apply during low-level inversion conditions, when winds are gusty or under any other conditions which favor drift. Drift may cause damage to any vegetation contacted to which treatment is not intended. To prevent injury to adjacent desirable vegetation, appropriate buffer zones must be maintained.

There are no rotational crop restrictions following applications of this product.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product to Boundup Ready cotton. Follow the cleaning procedures specified on the label of the product(s) previously used. Cotton is very sensitive to many herbicides at extremely low concentrations and care should be taken to thoroughly clean all equipment prior to use.

In addition to uses listed in the Roundup Ultra® herbicide label booklet, the following applications can be made:

Over-the-top applications: This product may be applied by aerial or ground application equipment postemergence to Roundup Ready cotton from the ground cracking stage until the four leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). Over-the-top applications made after the four leaf (node) stage of development may result in boli loss, delayed maturity and/or yield loss. Any single over-the-top broadcast application should not exceed 1 quart per acre. No more than two over-the-top broadcast applications may be made from crop emergence through the four leaf (node) stage of development. Sequential over-the-top applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

NOTE: Always plant into a weed free seedbed. In no-till and stale seedbed systems, always burn down existing weeds before cotton emerges. Apply a preplant burndown treatment of 16-48 fluid ounces per acre of this product.

Post-Directed Or Hooded Applications: This product may be applied using precision post-directed or hooded sprayers to Roundup Ready cotton through lay-by. At this stage, postdirected equipment should be used which directs the spray to the base of the cotton plants. Contact of the spray with cotton leaves should be avoided to the maximum extent possible. To minimize spray onto the leaves of the cotton plants, place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact weeds in the row, and maintain low spray pressure (less than 30 PSI). For best results, make applications while weeds are small (less than 3 inches). Any single post-directed application should not exceed 1 quart per acre of this product. No more than two applications should be made from the fifth leaf through lay-by. Sequential in-crop applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

ATTENTION: USE OF ROUNDUP ULTRA HERBICIDE IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COTTON, HOWEVER, VARIOUS ENVIRONMENTAL CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS MAKE IT IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.

Salvage Treatment: This treatment may be used after the four leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. One quart per acre may be applied either as an over-the-top applications or as a post-directed treatments sprayed higher on the cotton plants and over the weeds. NOTE: SALVAGE TREATMENTS WILL RESULT IN SIGNIFICANT BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS. NO MORE THAN ONE SALVAGE TREATMENT SHOULD BE USED PER GROWING SEASON.

Weeds Controlled: For specific rates of application and instructions for control of various annual and perennial weeds, refer to "ANNUAL WEEDS RATE TABLE" section of the label booklet. Roundup Ultra herbicide applied at 1 quart per acre will burndown or suppress the growth of the following perennial weeds and reduce crop competition: yellow and purple nutsedge, rhizome johnsongrass, common bermudagrass, silverleaf nightshade, trumpet creeper, and redvine. Fall preharvest applications may be required for control of these perennial weeds.

Tank mixtures with other herbicides may result in reduced weed control or crop injury and are not recommended for over-the-top applications of this product.

Some weeds with multiple germination times or suppressed (stunted) weeds may require sequential applications of this product for control.

Preharvest Applications: This product may be applied for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton after 20% boll crack. Allow a minimum of 7 days between application and harvest. For specific recommendations refer to the "COTTON" section of the Roundup Ultra herbicide label booklet. NOTE: Roundup Ultra herbicide will not enhance the performance of harvest aids when applied to Roundup Ready cotton. DO NOT APPLY ROUNDUP ULTRA HERBICIDE PREHARVEST TO CROPS GROWN FOR SEED.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin-run" seed saved from previous year's production and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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This supplemental label will expire on April 1, 2002.

21137Y5-20

3/2/1998

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



NOTIFICATION NOV 0 1 2063

EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

FOR COTTON WITH THE ROUNDUP READY® GENE IN-CROP APPLICATIONS

Keep out of reach of children.

CAUTION!

In case of emergency involving this product, Call Collect, day or night, (314) 694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

General Information

ATTENTION: MONSANTO RECOMMENDS THIS PROUCT FOR USE ONLY OVER-THE-TOP OF OR DIRECTED ONTO IMPROVED COTTON VARIETIES THAT ARE DESINATED AS COTTON WITH THE ROUNDUP READY® GENE. SEVERE INJURY OR DEATH OF COTTON WILL RESULT IF ANY COTTON VARIETIES NOT PROPERLY DESIGNATED AS HAVING THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, OR ANY DESIRABLE PLANTS AND TREES, OTHER THAN CROPS WITH THE ROUNDUP READY GENE, SINCE SEVERE INJURY OR DESTRUCTION WILL RESULT.

ROUNDUP READY COTTON VARIETIES MUST BE PURCHASED FROM AN AUTHORIZED LICENSED SEED SUPPLIER THE DESIGNATION, "ROUNDUP READY", INDICATES THE COTTON VARIETY CONTAINS A PATENTED PROPRIETARY TRAIT.

Application Instructions

This product will control many troublesome weeds with overthe-top, post-directed, hooded sprayer, or preharvest applications in Roundup Ready cotton.

Maximum Allowable Yearly Rates

applications. 2. Preplant, Preemergence applications. 5	quarts/A
Total in-crop applications from 4 cracking to lay-by.	quarts/A

4. Maximum preharvest application rate. 2 quarts/A

For ground applications with broadcast equipment, apply this product in 5 to 20 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

For aerial applications, apply this product in C to 15 gallons of water per acre.

DO NOT EXCEED A MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR. AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE. Do not apply during low-level inversion conditions, when winds are gusty or under any other conditions which favor drift. Drift may cause damage to any vegetation contacted to which treatment is not intended. To prevent injury to adjacent desirable vegetation, appropriate buffer zones must be maintained.

There are no rotational crop restrictions following applications of this product.

Sprayer Preparation: It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product to Roundup Ready cotton. Follow the cleaning procedures specified on the label of the product(s) previously used. Cotton is very sensitive to many herbicides at extremely low concentrations and care should be taken to thoroughly clean all equipment prior to use.

In addition to uses listed in the Roundup Ultra® herbicide label booklet, the following applications can be made:

Over-the-top applications: This product may be applied by aerial or ground application equipment postemergence to Roundup Ready cotton from the ground cracking stage until the four leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). Over-the-top applications made after the four leaf (node) stage of development may result in boll loss, delayed maturity and/or yield loss. Any single over-the-top broadcast application should not exceed 1 quart per acre. No more than two over-the-top broadcast applications may be made from crop emergence through the four leaf (node) stage of development. Sequential over-the-top applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

NOTE: Always plant into a weed free seedbed. In no-till and stale seedbed systems, always burn down existing weeds before cotton emerges. Apply a preplant burndown treatment of 16-48 fluid ounces per acre of this product.

Post-Directed Or Hooded Applications: This product may be applied using precision post-directed or hooded sprayers to Roundup Ready cotton through lay-by. At this stage, postdirected equipment should be used which directs the spray to the base of the cotton plants. Contact of the spray with cotton leaves should be avoided to the maximum extent possible. To minimize spray onto the leaves of the cotton plants, place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact weeds in the row, and maintain low spray pressure (less than 30 PSI). For best results, make applications while weeds are small (less than 3 inches). Any single post-directed application should not exceed 1 quart per acre of this product. No more than two applications should be made from the fifth leaf through lay-by. Sequential in-crop applications of this product must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

ATTENTION: USE OF ROUNDUP ULTRA HERBICIDE IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COTTON, HOWEVER, VARIOUS ENVIRONMENTAL CONDITIONS, AGRONOMIC PRACTICES AND OTHER FACTORS MAKE IT IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT, EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS. IN SOME CASES, THESE FACTORS CAN RESULT IN BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS.

Salvage Treatment: This treatment may be used after the four leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. One quart per acre may be applied either as an over-the-top applications or as a post-directed treatments sprayed higher on the cotton plants and over the weeds. NOTE: SALVAGE TREATMENTS WILL RESULT IN SIGNIFICANT BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS. NO MORE THAN ONE SALVAGE TREATMENT SHOULD BE USED PER GROWING SEASON.

Weeds Controlled: For specific rates of application and instructions for control of various annual and perennial weeds, refer to "ANNUAL WEEDS RATE TABLE" section of the label booklet. Roundup Ultra herbicide applied at 1 quart per acre will burndown or suppress the growth of the following perennial weeds and reduce crop competition: yellow and purple nutsedge, rhizome johnsongrass, common bermudagrass, silverleaf nightshade, trumpet creeper, and redvine. Fall preharvest applications may be required for control of these perennial weeds.

Tank mixtures with other herbicides may result in reduced weed control or crop injury and are not recommended for overthe-top applications of this product.

Some weeds with multiple germination times or suppressed (stunted) weeds may require sequential applications of this product for control.

Preharvest Applications: This product may be applied for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton after 20% bolf crack. Allow a minimum of 7 days between application and harvest. For specific recommendations refer to the "COTTON" section of the Roundup Ultra herbicide label booklet. NOTE: Roundup Ultra herbicide will not enhance the performance of harvest aids when applied to Roundup Ready cotton. DO NOT APPLY ROUNDUP ULTRA HERBICIDE PREHARVEST TO CROPS GROWN FOR SEED.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin-run" seed saved from previous year's production and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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This supplemental label will expire an April 1, 2002.

21137Y5-20

3/2/1000



MONSANTO COMPANY
600 13TH STREET, NW
SUITE 660
WASHINGTON, D.C. 20005
http://www.monsanto.com

October 6, 2000

Office of Pesticide Programs (7504C)
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Cotton with the Roundup Ready Gene In-Crop Applications

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y5-20) for the above use. The minor change is as follows:

Revise expiration date.

If you have any questions regarding this submission, please feel free to contact me through Dr. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

cc:

M. Gray

A. Kirk

MONSANTO COMPANY
000 13TH STREET, NW
SUITE 660
WASHINGTON, D.C. 70005
http://www.monsanto.com

October 3, 2000

Office of Pesticide Programs (7504C)
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Postemergence Applications to Com with the Roundup Ready Gene

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental fabel for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y6-8) for the above use. The minor change is as follows:

Revise expiration date.

If you have any questions regarding this submission, please feel free to contact me through Dr. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

CC:

M. Gray

A. Kirk

Please read instructions on reverse before completing form.	i onit Apple	<u>vea. OMB Na. 2070-006</u>	<u> </u>	
United States Environmental Protection Agency Washington, DC 20460		Registration Amendment X Other	OPP Identifier Number	
Application 1	for Pesticide - Secti	on I		
1. Company/Product Number 524-475	2. EPA Product Mana Mr. James	ger 3.1	Proposed Classification	
4.Company/Product(Name) Roundup Ultra Herbicide	РМ# 25		None Restricted	
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address			th FIFRA Section 3(c)(3) composition and labeling	
	Occupit - 11			
Amendment - Explain below. Resubmission in response to Agency letter dated				
Explanation: Use additional page(s) if necessary. (For section end Section II.) Revise expiration date Print Plate No. 21137Y6-8				
, ,	Section - III	<u> </u>		
1. Material This Product Will Be Packaged In:				
Yes No No H "Yes" No. per	Veter Soluble Packaging Yes No Yes* No. per eackage wgt container	2. Type of Contained Metal Plastic Glass Paper Other	,	
3. Location of Net Contents Information 4. Size(s) Retail C	ontainer	5. Location of Label Direct On Label On Labeling acco	ions mpanying product	
S. Manner in Which Label is Affixed to Product Lithograph Peper glued Stenciled				
Section - IV				
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)				
Name Dr. Marsha Gray Title Registration Manager (202) 733-2460				
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment ur both under applicable law. 6. Date Application Received (Stamped)				
2. Signature Sebra Henton 3. Ti	ide Registration Spec	ialist	100	
Jebra Hinton 5.D	/0 /3 / 2	Love		

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Examption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- Metrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on F x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Pleasa read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, raregistrations, etc., Sections I, II, and IV must be completed by the applicant. Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an astablishment. If your product is registered, insert the Product Number.
- EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager,
- Proposed Classification Specify the proposed classification of this product.
- Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your epplication to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you balleve is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, past or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Affech a separate page if additional space is needed.

SECTION III (Packaping and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Coutsiner Indicate type of container in which product will be marketed,
- 3. Location of Net Contents Indicate the location of that net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which rabal is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Content Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "mertoo," reregistration, etc.

1-5. Self-explanatory: **

6. EPA Use Only.

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide, container labels and this supplement.



nutheaction

EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready® are registered trademarks of Monsanto Company.

FOR POSTEMERGENCE APPLICATIONS TO CORN WITH THE ROUNDUP READY® GENE

Keep out of reach of children. CAUTION!

In case of emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBIGIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS) DESIRABLE PLANTS AND TREES, OTHER THAN CORN WITH THE ROUNDUP. READY GENE, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

GENERAL INFORMATION

MONSANTO COMPANY RECOMMENDS USE OF THIS PRODUCT ONLY ON CORN HYBRIDS DESIGNATED AS CONTAINING THE ROUNDUP READY GENE.

 Applying this product to com hybrids which are not designated as Roundup Ready will result in severe crop injury and yield loss. The Roundup Ready designation indicates that the comcontains a patented gene which provides tolerance to this herbicide. Information on Roundup Ready corn may be obtained from your seed supplier or Monsanto representative.

Application Instructions

This product may be applied postemergence to Roundup Ready corn from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches, whichever comes first. Single in-crop applications of this product are not to exceed 1 quart per acre. Sequential incrop applications of this product from emergence through the V8 stage or 30 inches must not exceen 2 quarts per acre per growing season.

Maximum Yearly Rates Allowed

Preplant: Maximum amount of this product which can be applied prior to crop emergence is 5 quarts per acre.

In-crop: Maximum coincined total of multiple in-crop applications from emergence through the V8 stage or 30 inches is 2 quarts per acre.

Preharvest: Maximum amount of this product that can be applied after maximum kernel fill is complete and the crop is

physiologically mature (black layer formation) until 7 days before harvest is 1 quart per acre.

Cropping Season: Combined total per year for all applications may not exceed 8 quarts per acre.

When applied as directed, this product controls labeled annual grass and broadleaf weeds in Roundup Ready corn. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more applications of this product. Applications should be made to actively growing weeds before they reach the maximum size listed in the "WEEDS CONTROLLED" section of the label booklet for Roundup Ultra herbicide. Refer to the "MIXING" section of the label booklet for proper use instructions.

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product under hard water conditions, drought conditions or when tank mixed with Bullet®, Micro-Tech® or Partner® herbicides. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion. The addition of other additives, including fertilizers and micro-nutrients are not recommended with this product since this may result in increased potential for crop injury.

Allow a minimum of 50 days between application of this product and harvest of corn forage and 7 days between application and harvest of corn grain. Allow a minimum of 10 days between in-crop applications of this product. There are no rotational crop restrictions following applications of this product.

ATTENTION: AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE.

THOROUGHLY CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL CONTAMINATION FROM OTHER HERBI-CIDES PRIOR TO MIXING AND APPLYING THIS PRODUCT.

For Ground Applications: Use the recommended rates of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. Carefully select correct nozzles and spray pressure to avoid spraying a fine mist. Check for even distribution of spray droplets.

For Aerial Applications: Use the recommended rates of this product in 3 to 15 gallons of spray solution per acre. Do not exceed 1 quart per acre. See "WEEDS CONTROLLED" section on this label. AVOID DRIFT—DO NOT APPLY. DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Weed Control Recommendations

Apply 24 to 32 fluid ounces of Roundup Ultra herbicide per acre for control of labeled grasses and broadleaf weeds in conventional and no-till corn production systems. Refer to the label booklet for Roundup Ultra herbicide for rate recommendations for specific annual weeds. Roundup Ultra herbicide applied at up to 1 quart per acre will control or

suppress the growth of perennial weeds such as: bermudagrass. Canada thistle, common milkweed, field bindweed, hemp dogbane, horsenettle, nutsedge, quackgrass, rhizome johnsongrass, redvine, trumpetcreeper, swamp smartweed, and wirestem muhly. For additional information on perennial weeds, see the "PERENNIAL WEED RATE TABLE" of the label booklet for Roundup Ultra herbicide.

Preemergence followed by Postemergence Weed Control Program

This product may be applied posternergence in-crop following any labeled preemergence herbicide application. The post application of this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop. A single in-crop application of this product at the recommended rate will provide control of emerged weeds listed on the label. This product may be applied posternergence to Roundup Ready com from emergence through the V8 stage (8 leaves with collars) or until com height reaches 30 inches (free standing), whichever comes first.

Postemergence Only Weed Control Program

This product may be applied alone as a postemergence incrop application to provide control of emerged weeds listed on the label. The postemergence application of this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop. If new flushes of weeds occur, a sequential application of this product at 24 to 32 fluid ounces per acre will control the labeled grasses and broadleaf weeds. This product may be applied postemergence to Roundup Ready com from emergence through the V8 stage or until corn height reaches 30 inches (free standing), whichever comes first.

This product may be applied in tank mixture with a labeled rate of Harness*, Harness Xtra, Harness Xtra 5.6L, Micro-Tech, Bullet, Partner, Permit® or atrazine. Refer to the specific product label and observe all precautions and limitations on the label for all products used in tank mixtures, including application timing restrictions, soil restrictions, minimum recropping interval and rotational guidelines - the more restrictive requirements apply. Tank mixtures with other products may result in increased potential for crop injury and/or weed antagonism. Refer to the table below for height limitation for tank mix partner.

Tank Mix Partner	Maximum Height Of Corn For Application
Hamess Harness Xtra Hamess Xtra 5.6L	11 inches
Bullet* Micro-Tech* Partner*	5 inches
Permit	24 inches
Atrazine	12 inches

*Bullet, Micro-Tech and Partner are not registered for use as a postemergence application in Texas.

Bullet, Harness, Micro-Tech and Partner are registered trademarks of Monsanto Company.

Permit is a trademark of, and used under license from Nissan Chemical Industries, Ltd.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using.

For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with "brown bag" or "bin run" seed saved from the previous year's productions and replanted. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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This supplemental label expires December 31, 2001.

21137Y6-8

7/13/99

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide, container labels and this supplement.



Mad Heading

EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready® are registered trademarks of Monsanto Company.

FOR POSTEMERGENCE APPLICATIONS TO CORN WITH THE ROUNDUP READY® GENE

Keep out of reach of children. CAUTION!

In case of emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

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Postemergence Only Weed Control Program

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Atrazine	12 inches

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Permit is a trademark of, and used under license from, Nissan Chemical Industries, Ltd.

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This supplemental label expires December 31, 2001.

21137Y6-8

7/13/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

September 28, 2000

Ms. Debra Hinton
Registration Specialist
Monsanto Company
600 13th Street, N.W.
Suite 660
Washington, D.C. 20005

RE: Final Printed Supplemental Label for Use in Medicinal Herbs

EPA Registration Number: 524-475 Submission Date: August 14, 2000

Dear Ms. Hinton:

The notification referred to above is incomplete and cannot be accepted at this time. A notification must include the certification statement per PR Notice 98-10. Please refer to the PR Notice 98-10 Section VI and resubmit your notification.

Any questions that you may have concerning this action, please contact me at 703/305-5446.

Sincerely,

Linda G. Arrington, Team Leader

Notification Team

Registration Division (7505C)

MONSANTO, COMPANY 600 13TH STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005

TEL: (202) 783-2460 Fax: (202) 783-2468

August 14, 2000

Office of Pesticide Programs (7504C)
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

use in medicinal herbs

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y1-91) for the above use. This supplemental was approved by the EPA February 16, 2000. The minor change to this supplemental is as follows:

Under listing of medicinal herbs, "Goldseal" has been changed to read "Golden Seal".

If you have any questions regarding this submission, please feel free to contact me through Ms. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

CC;

M. Gray

S. Wratten

a Hinton

Please read instructions on reverse before completing form.	Form Approved. OMB No. 20	070-0060			
SEPA Environmental Protecti Weshington, DC 20		- I was a second of the second			
Applicati	on for Pesticide - Section I	<u>. </u>			
1. Company/Product Number 524-475	2. EPA Product Manager Mr. James Tompkins	3. Proposed Classification			
4. Company/Product (Name) Roundup Ultra Herbicide	X None Restricted				
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address	(b)(i), my product is similar or ident to:	EPA Reg. No			
	Section - II				
Amandment - Explain below. Resubmission in response to Agency letter deted X Notification - Explain below. Explanation: Use additional page(s) if necessary. (For section Print Plate No. 21137Y1— 1. Material This Product Will Be Packaged In: Child-Resistent Packaging Yes No No		Container Metal Pleastic			
* Certification must be submitted If "Yes" No. per Unit Packaging wgt. container	If "Yes" No. per Package wgt container	Glass Paper Other (Specify)			
Label Container		•			
6. Manner in Which Lebel is Affixed to Product Lithograph Dother Stenciled					
	Section - IV	·			
1. Contact Point Complete items directly below for identificati	on of individual to be contacted, if necessary, to pr	ocess this application.)			
Name Dr. Marsha Gray	Title Registration Manager	Telephone No. (Include Area Code) (202) 783-2460			
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I ecknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or (Stamped)					
2. Signature Aubic Hinton Registration Specialist					

5. Data

Debra Hinton

4. Typed Name

August 14, 2000

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per iponse, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and rewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including gestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, ashington, DC 20460.

ISTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications requirements final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the llowing material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Jbmission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be instructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 7 to paper for submission.

ubmission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

PECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration ction, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, offications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Jock A - Check the appropriate action for which you are submitting this form.

FECTION 1 - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registerent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- ¿. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- Proposed Classification Specify the proposed classification of this product.
 - Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only.

 Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

<u>SECTION II</u> - This section must be completed for all applications submitted to amend the registration only of a currently registered product [Amendment], for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a <u>specific EPA-registered product</u>. This section is <u>not to be</u> used for a new application for registration.

1. Subject of submission - Chack the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

<u>SECTION III</u> (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types, indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which tabel is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," respistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra is a registered trademark of Monsanto Company.

FOR USE IN THE FOLLOWING MEDICINAL HERBS: Burdock, Dandelion, Echinacea, Feverfew, Golden Seal, Stinging Nettle, St. Johnswort, Valerian, Blue Vervain

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra[®] herbicide for essential product performance information.

USE RECOMMENDATIONS

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Annual and Perennial Weeds Rate Tables" in the Roundup Ultra herbicide label booklet.

TYPES OF APPLICATIONS: Chemical fallow, preplant fallow beds, preplant, preemergence, post directed hooded applications and postharvest.

Chemical Fallow, Preplant Fallow Beds

USE INSTRUCTIONS: This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields.

Preplant, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting by direct seeding and prior to transplanting the crops listed above. Applications must be made prior to emergence of the crop.

PRECAUTIONS, RESTRICTIONS: Preplant applications must be made at least 3 days prior to transplanting. When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by a single 0.5 inch application of water either by natural rainfall or via a sprinkler system. EXTREMS CARE MUST BE TAKEN TO ENSURE THAT THERE IS NO PART OF A SEED OR EMERGING SEEDLING CAPABLE OF BEING CONTACTED AND THAT THE SOIL IS TOTALLY COVERING THE SEED OR DEVELOPING SEEDLING AT APPLICATION.

ENSURE THAT NO PART OF ANY SEED OR EMERGING SEEDLING IS CONTACTED BY HERBICIDE SOLUTION, SPRAY DRIFT OR MIST.

For preemergence applications prior to the emergence of established perennial crops do not apply within one week prior to emergence of any plant part.

Post Directed Hooded Applications, Post-Harvest USE INSTRUCTIONS: Post directed hooded applications of this product may be made to mulched or unmulched row middles after crop establishment.

This product may be applied after final harvest to control weeds, suppress regrowth of annual crops or for renovation of biennial or perennial crop beds. Higher rates may be needed to control large weeds which were growing in the crop at the time of harvest.

PRECAUTIONS, RESTRICTIONS: Post directed applications may be made at a maximum of 1 quart per acre and a maximum of 1 application per growing season. Post directed and post-harvest applications must be made at least 14 days

prior to planting the next crop. Do not harvest or feed treated vegetation. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT OR OTHER PARTS OF DESIRABLE PLANTS. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

Grower assumes all responsibility for crop losses from misapplication.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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21137Y1-91

2/16/2000

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See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

USE RECOMMENDATIONS

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Annual and Perennial Weeds Rate Tables" in the Roundup Ultra herbicide label booklet.

TYPES OF APPLICATIONS: Chemical fallow, preplant fallow beds, preplant, preemergence, post directed hooded applications and postharvest.

Chemical Fallow, Preplant Fallow Beds

USE INSTRUCTIONS: This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields.

Preplant, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting by direct seeding and prior to transplanting the crops listed above. Applications must be made prior to emergence of the crop.

PRECAUTIONS, RESTRICTIONS: Preplant applications must be made at least 3 days prior to transplanting. When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by a single 0.5 inch application of water either by natural rainfall or via a sprinkler system. EXTREME CARE MUST BE TAKEN TO ENSURE THAT THERE IS NO PART OF A SEED OR EMERGING SEEDLING CAPABLE OF BEING CONTACTED AND THAT THE SOIL IS TOTALLY COVERING THE SEED OR DEVELOPING SEEDLING AT APPLICATION.

ENSURE THAT NO PART OF ANY SEED OR EMERGING SEEDLING IS CONTACTED BY HERBICIDE SOLUTION, SPRAY DRIFT OR MIST.

For preemergence applications prior to the emergence of established perennial crops do not apply within one week prior to emergence of any plant part.

Post Directed Hooded Applications, Post-Harvest USE INSTRUCTIONS: Post directed hooded applications of this product may be made to mulched or unmulched row middles after crop establishment.

This product may be applied after final harvest to control weeds, suppress regrowth of annual crops or for renovation of biennial or perennial crop beds. Higher rates may be needed to control large weeds which were growing in the crop at the time of harvest.

PRECAUTIONS, RESTRICTIONS: Post directed applications may be made at a maximum of 1 quart per acre and a maximum of 1 application per growing season. Post directed and post-harvest applications must be made at least 14 days

prior to planting the next crop. Do not harvest or feed treated vegetation. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT OR OTHER PARTS OF DESIRABLE PLANTS. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

Grower assumes all responsibility for crop losses from misapplication.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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21137Y1-91

2/16/2000

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EPA Reg. No. 524-475

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FOR USE IN THE FOLLOWING MEDICINAL HERBS:
Burdock, Dandelion, Echinacea, Feverfew, Golden Seal, Stinging Nettle,
St. Johnswort, Valerian, Blue Vervain

Keep out of reach of children.

CAUTION!

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DIRECTIONS FOR USE

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2/16/2000



Ful Gund

MONSANTO COMPANY
600 13TH STREET, NW
SUITE 600
WASHINGTON, D.C. 20005
http://www.monsanto.com

October 10, 2000

Office of Pesticide Programs (7504C)
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Use in Medicinal Herbs

Dear Mr. Tompkins.

Monsanto is <u>re-submitting</u> (per your letter dated September 28, 2000) for your files, three (3) copies of the final printed supplemental label for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y1-91) for the above use. This supplemental was approved by the EPA on February 16, 2000. The minor change to this supplemental is as follows:

Under listing of medicinal herbs, "Goldseal" has been changed to read "Golden Seal".

"This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

If you have any questions regarding this submission, please feel free to contact me through Dr. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton-

Registration Specialist

CC:

M. Gray

S. Wratten

aleber Hanton

-		Form Annua		
SEPA	United States Environmental Protection Washington, DC 204	on Agency	Registration Amendme Other	OPP Identifier Number
	Application	on for Pesticide - Secti	on I	\
1, Company/Product Nur		2. EPA Product Mena Mr. James To	ger	3. Proposed Classification
4. Company/Product (Na Roundup Ul	me) tra Herbicide	PM# 25		X None Restricted
Monsanto C 600 13th S Washington	Applicant (Include ZIP Code) ompany treet, N.W., Suite 660 , DC 20005 this is a new address	(b)(i), my product is to: EPA Reg. No.	similar or identica	e with FIFRA Section 3(c)(3) If in composition and labeling
CHOCK II	Shis is a new address	Product Name Section - II		
Notification - Exp	response to Agency letter dated	Agency lette "Me Too" Aj Other - Exple	oplication.	2/16/2000
		Section - III		· · · · · · · · · · · · · · · · · · ·
1. Material This Product	Will Be Packaged In:			<u> </u>
Child-Resistant Packagir Yes* No * Certification mus. be submitted	Yes No	Water Soluble Packaging Yes No No No. per Package wgt container		ontainer Metal Plastic Glass Paper Other (Specify)
3. Location of Net Conte	container 4. Size(s) Ret	tail Container	5. Location of Label On Label On Labeling	Directions g accompanying product
6. Manner in Which Lab	el is Affixed to Product Lithog Paper Stenci	alued 🖵		
		Section - IV		
1. Contact Point (Comp	lete items directly below for identification	on of individual to be contacted, i	f necessary, to proc	ess this epplication.)
Name Dr. Marsha	Gray	Registration Ma	na <i>uar</i> i	elephone No. (Include Area Code) (202) 783-2430
l certify that the s	Certifica tatements I have made on this form and	-	accurate and comp	8. Date Application

I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisorment of

3. Title

5. Date

Debra Hinton

both under applicable law.

2. Signature

4. Typed Name

Registration Specialist

10/10/2000

(Stamped)

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per sonse, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and ewing the collection of information. Send confidents regarding the burden estimate or any other aspect of this collection of information, including gestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401.M Street, SW, shington, DC 20460.

STRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the awing material must accompany the application:

- 1. Certification with Respect to Citation of Date (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Examption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- Authorization letter where applicable:
- 7. Matrices where applicable.

mission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be set form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label, if prepared for mockup, it should be structed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on I inch paper for submission.

mission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

ECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration on, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, fications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

* A - Check the appropriate action for which you are submitting this form.

CTION I - This section must be completed, as applicable, for all registration actions.

Company/Product Number - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.

EPA Product Manager - If known, fill in the name and PM number of the EPA Product Manager.

Proposed Classification - Specify the proposed classification of this product.

Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.

Name and Address of Applicant - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

Expedited Review - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

CTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product rendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for gistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for attention.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

CTION III (Peckaging and Container Information) - This Section must be completed for all applications submitted in connection with new stration or applicable amendments.

Type of Packaging - Check the appropriate block if your product will be packaged in the indicated packaging types.

Indicate the size of the individual prokets and number per retail container.

Type of Retail Container - Indicate type of container in which product will be marketed.

Location of NAY Contants - limited to location of the net contents information for your product.

Sizels) of Retail Container - Specify the net contents of all retail containers for your product.

Location of Use Directions - Indicate the location of the use directions for your product.

Manner in which label is affixed to product - Indicated the method product label is attached to retail container,

CTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, abmission, *me-too;* reregistration, etc.

Self-explanacory...
 EPA Use Only.

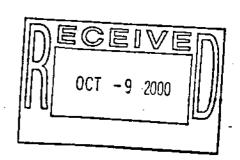


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

September 28, 2000

Ms. Debra Hinton Registration Specialist Monsanto Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005



RE: Final Printed Supplemental Label for Use in Medicinal Herbs

EPA Registration Number: 524-475 Submission Date: August 14, 2000

Dear Ms. Hinton:

The notification referred to above is incomplete and cannot be accepted at this time. A notification must include the certification statement per PR Notice 98-10. Please refer to the PR Notice 98-10 Section VI and resubmit your notification.

Any questions that you may have concerning this action, please contact me at 703/305-5446.

Sincerely,

Linda G. Arrington, Team Leader

Notification Team

Registration Division (7505C)

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra is a registered trademark of Monsanto Company.

FOR USE IN THE FOLLOWING MEDICINAL HERBS:
Burdock, Dandelion, Echinacea, Feverfew, Golden Seal, Stinging Nettle,
St. Johnswort, Valerian, Blue Vervain

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

USE RECOMMENDATIONS

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Annual and Perennial Weeds Rate Tables" in the Roundup Ultra herbicide label booklet.

TYPES OF APPLICATIONS: Chemical fallow, preplant fallow beds, preplant, preemergence, post directed hooded applications and postharvest.

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USE INSTRUCTIONS: This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields.

Preplant, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting by direct seeding and prior to transplanting the crops listed above. Applications must be made prior to emergence of the crop.

PRECAUTIONS, RESTRICTIONS: Preplant applications must be made at least 3 days prior to transplanting. When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by a single 0.5 inch application of water either by natural rainfall or via a sprinkler system. EXTREME CARE MUST BE TAKEN TO ENSURE THAT THERE IS NO PART OF A SEED OR EMERGING SEEDLING CAPABLE OF BEING CONTACTED AND THAT THE SOIL IS TOTALLY COVERING THE SEED OR DEVELOPING SEEDLING AT APPLICATION.

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For preemergence applications prior to the emergence of established perennial crops do not apply within one week prior to emergence of any plant part.

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prior to planting the next crop. Do not harvest or feed treated vegetation. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION. SPRAY, DRIFT OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT OR OTHER PARTS OF DESIRABLE PLANTS. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

Grower assumes all responsibility for crop losses from misapplication.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

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OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Dr. Steve J. Wratten Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Dr. Wratten:

Subject: Roundup Ultra Herbicide (Add Preharvest Barley In States of ID, MN, MT, ND, OR,

SD, and WA)

EPA Registration No. 524-475 Your Letter Dated May 18, 1999

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you submit or cite all data required for registration/ reregistration of your product when the Agency requires all registrants of similar products to submit such data.

If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely,

James A. Tompkins

James A. Tompkins Product Manager 25

Herbicide Branch

Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP & ULTRA HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra and this

ACCEPTED

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Under the Federal Insecticide, Pungicide, and Rodenticide Act as amended for the pesticide registered under 3PA Reg. No. 1944 1976 ROUNDUP ® ULTRA Herbicide by Monsanto

EPA Reg. No. 524-475

FOR PREHARVEST APPLICATIONS IN BARLEY ONLY IN THE STATES OF IDAHO, MINNESOTA, MONTANA, NORTH DAKOTA, OREGON, SOUTH DAKOTA. AND WASHINGTON

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

® Roundup Ultra is a registered trademark of Monsanto Company.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNRUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

RECOMMENDATIONS

This product may be used prior to harvest of barley to control annual and perennial weeds listed on the label booklet for Roundup Ultra herbicide.

INSTRUCTIONS

Apply up to 1 quart of this product per acre in 5 to 10 gallons of water per acre.

This product may be applied using either aerial or ground spray equipment. See the "mixing" and "APPLICATION EQUIPMENT AND TECHNIQUES" sections of the label for complete instructions.

PRECAUTIONS, RESTRICTIONS

Preharvest applications of this product are not recommended for malting barley.

Make applications when grain has 30% grain moisture or less and at least 7 days prior to harvest. Applications made at greater than 30% moisture can reduce barley quality and increase lodging.

Note: It is not recommended that barley grown for seed be treated because a reduction in germination or vigor may occur.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

© Monsanto Company 1999

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CFA Form 4579-13 (\$-7%)

United States

Environmental Protection Agency

Washington, DC 20460

	Registration
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	Other

Form Approved. OMB No. 2070-0060.

OPP Identifier Number

Application for	Pesticide - Section I				
Company/Product Number 524-475	2. EPA Product Manager Mr. James Tompkins	3. Proposed Classification			
Company/Product (Name) Roundup Ultra Herbicide	PM# 25	None Restricted			
Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No.				
Check if this is a new address	Product Name				
Sec	tion - II				
Amendment - Explain below. Resubmission in response to Agency letter dated	Final printed labels in response to Agency letter dated "Me Too" Application. Other - Explain below.				
:planation: Use additional page(s) if necessary. (For section I and Se	ection II.)				
Preharvest barley treatments. Submission Straw and Stover of cereal grains group		1477			
Sec	tion - III				
Material This Product Will Be Packaged In:					
Yes Yes No. per If "Yes" No. per If "Yes"	No G	ntainer Netal Hestic Hess eper other (Specify)			
Location of Net Contents Information 4. Size(s) Retail Contain Label Container	On Label	Directions accompanying product			
Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled	Other				
Sect	ion - IV	·			
Contact Point (Complete items directly below for identification of indiv	idual to be contacted, if necassary, to proca	ss this application.)			
DE RICCELL & SCHOOLOGE I	gi rear cara: Regaración	lephone No. (Include Area Code) 202) 783-2460			
Certification I certify that the statements I have made on this form and all attach I acknowledge that any knowingly false or misleading statement me both under applicable law.		6. Date Application Received (Stamped)			
Signature 3. Title Mail nager, Registrations					
Typed Name Stephen J. Wratten, Ph.D. 5. Date	May 18, 1999	222			
Form 8570-1 (Rev. 8-94) Previous editions are obsolete. OG607	0075 White - EPA File Copy (or	Iginal) Yellow - Applicant Copy			

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour presponse, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch. (2136), U.S. Environmental Protection Agency. 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 1 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a
 basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (8) provides for expedited review of applications for registration, or amendments to existing registration, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the ret contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.

VESC SARALLES

- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

1-5. Self-explanatory.

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6. EPA Use Only.

EPA Form 8570-1 (Rov. 8-94) Previous siliso is are coscilete. ((() 5,-(1)) ()



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address. Certification with Respect to Citation of Data Applicant's/Registrant's Name, Address, and Telephone Number Monsanto Company EPA Registration Number/File Symbol 524-475 600 13th Street, N.W., Suite 660 Washington, DC 20005 202-783-2460 Active Ingredient(s) and/or representative test compound(s) Date May 18, 1999 Glyphosate General Use Pattern(s) (list_all those claimed for this product using 40 CFR Part 158) Product Name Roundup Ultra Herbicide Terrestrial (food/non-food), Forestry, Domestic Outdoor NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to ibmit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27). I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). SECTION I: METHOD OF DATA SUPPORT (Check one method only) I am using the cite-all method of support, and have included with this form I am using the selective method of support (or cite-all option a list of companies sent offers of compensation (the Data Matrix form under the selective method), and have included with this form a should be used for this purpose). completed list of data requirements (the Data Matrix form must be SECTION II: GENERAL OFFER TO PAY Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements] I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA. SECTION III: CERTIFICATION I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the pplication for registration, the form for reregistration, or the Data-Call-in response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses . I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study. I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study, (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study. I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA. I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. gnature Date Typed or Printed Name and Title

EPA Form 8570-34 (9/97) Electronic and Paper versions available. Submit only Paper version.

18.May.99

Stephen J. Wratten, Manager

Registriation

Form Approved OMB No. 2070-0060



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	DA	TA MATRIX			
Date May 18, 1999			EPA Reg No /File Symbol 524-475		Page 10f
Applicant's/Registrant's Name & Add	ress Monsanto Company	,	Product		···
600 13th Street, N.W., Suite 66	60 Washington, DC 20005 202-783-2460		Roundup Ultra Herbicide		
Ingredient Glyphosate					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
171-4k	Glyphosate Residues in Canadian Barley Grain and Straw Following Preharvest Application of Roundup Herbicide	43807202	Monsanto	OWN	
	Magnitude of the Residue in Livestock	40532001 -40532002 40532003	Monsanto	OWN	
For all other supporting data see the Data Matrix in Section C of this submission			Monsanto	OWN	· · · · · · · · · · · · · · · · · · ·
	······································		Public Literature	PL .	<u> </u>
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		. DATA MATE	ΙX			
Dale May 18, 1999				EPA Reg No./File Symbol 524-475		Page 1 of
Applicant's/Registrant's Name & Add	ess Monsanto Company			Product		-
600 13th Street, N.W., Suite 660	Washington, DC 20005 202-783-2460)		Roundup Ultra Herbicide		
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Signature	News			Name and Tille Stephen J. Wratten, Manager.	<u></u> L	Dale 18 May

EPA Form 9570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Public File Copy

Explanation of Label Statements

Preharvest application of glyphosate herbicides in barley is allowed in Canada and Europe. On the basis of residue data from these other countries, the Agency recently approved Monsanto's tolerance petition (PP 2E4118) to establish tolerances covering glyphosate residues in imported barley, grain (20 ppm) and barley, bran (30 ppm). Subsequent discussion between Monsanto, EPA, and the National Barley Growers Association (see attached letter in Appendix A) has indicated that the Agency would be willing to approve a U.S. label for preharvest barley application in the Northern states, relying on the residue data from Canada (MRID 43807202), as long as the label instructions are the same.

The following is an except from the Canadian Roundup Transorb Herbicide:

"For control of quackgrass, Canada thistle, common milkweed, toadflax and dandelion; and season-long control of perennial sow thistle, Roundup Transorb can be applied prior to harvest of wheat, barley (including malting barley), oats, canola (rapeseed), flax (including low linolenic acid varieties), lentils, peas, dry beans, soybeans and forages. DO NOT apply to crops if grown for seed production.

This treatment may also provide harvest management benefits, by drying down crop and weed vegetative growth, for example, where late flushes of annual weeds, green vegetative crop growth, or late tillering may interfere with harvest operations. EXTREMELY COOL, WET AND/OR CLOUDY WEATHER CONDITIONS BETWEEN THE TIME OF APPLICATION AND THE ANTICIPATED HARVEST DATE MAY SLOW DOWN ACTIVITY OF THIS PRODUCT, THEREBY DELAYING CROP DRYDOWN AND HARVEST DATE.

Roundup Transorb should be applied pre-harvest at 2.5 L/ha in 50 to 100 L/ha of clean water, by ground application only. Apply only when the crop has 30% or less grain moisture content. This stage typically occurs 7 to 14 days before harvest...."

Roundup Transorb Herbicide in Canada is essentially the same as Roundup Ultra Herbicide in the US.

The proposed label herein for preharvest barley contains the same rate recommendation (2.5 L/hectare = 1.07 quarts/acre), and retains the 7-day preharvest interval restriction and the requirement that grain be mature (no more than 30% grain moisture). The amount of diluent used in Canada (50 - 100 L/ha) is equivalent to 5 - 10 gallons per acre.

The label is restricted to the seven Northern barley producing states, which together represent about 83% of US barley production.

Monsanto believes that preharvest applications of glyphosate in barley can alter the grain—qualities so that it will not be attractive to some maltsters, and have therefore added the recommendation against preharvest treatments in barley intended for malting. Because of the contractural nature of malt barley production in Canada, this statement does not appear on Canadian glyphosate labels.

Section C Data Reference List

A complete Data Matrix for Roundup Ultra Herbicide and the Glyphosate Technical is included in the following pages. The specific data that are relevant to the present petition are as follows:

Canadian Preharvest Barley Residues: MRID 43807202

US Preharvest Corn Residues: MRID 43655701

US Preharvest Sorghum Residues: MRIDs 43342001, 44646601

US Preharvest Wheat Residues: MRID 41484301

Livestock feeding studies: MRIDs 40532001, 40532002, and 40532003

RIN 910-02
EPA Reg Jacket# 524-475(val. 7 of 9)
Page is not included in this copy.
Pages $\frac{231}{25}$ through $\frac{257}{25}$ are not included in this copy.
The material not included contains the following type of information:
Identity of product inert ingredients.
Identity of product inert impurities.
Description of the product manufacturing process.
Description of quality control procedures.
Identity of the source of product ingredients.
Sales or other commercial/financial information.
A draft product label.
The product confidential statement of formula.
Information about a pending registration action.
FIFRA registration data.
The document is a duplicate of page(s)
The document is not responsive to the request.
The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.

		No.	Study Name	EXPLANATION
	APPENDIX E	A CONTRACT	EXPLANATION OF DATA NOT REQUIRED TO SUPP	ORT REGISTRATION
	40 CFR 158.	15 -190	PRODUCT CHEMISTRY	· · · · · · · · · · · · · · · · · · ·
		63-6	Boiting Point (TGAt)	Data is required only if the technical material is a liquid at room temperature. Glyphosate is a solid.
		63-18	Viscosity (MP)	Data is required if the material is a liquid. Glyphosate is a solid.
		63-19	Miscibility (MP)	Data is required if the material is an emulsifiable liquid. Glyphosate is a water-soluble solid.
				Data is required is the product is an emutsifiable liquid. Roundup herbicide is a ready-to-use liquid, not to be
		. 63-19	Miscibility (EP)	difuted.
				Data is required for liquid products that are used around electrical equipment. When Roundup is applied as
		63-21	Dielectric Breakdown Voltage (EP)	a herbicide there is virtually no circumstance where it would be in contact with electrical equipment.
	40 CFR 158.	340	TOXICOLOGY	[2] [2] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
		81-3	Inhalation LC50 - Hal (MP & TGAI)	Requirement waived by EPA on 1/5/88.
				Data is required if repeated contact with human skin is expected. Glyphosate is not used in a manner where
		81-6	Dermal Sensitization (MP)	such contact is likely.
05800075		81-7	Acute Detayed Neurotoxicity - Hen (TGAI)	Not required unless test material is an organophosphate, or a metabolite or degradation product which causes acetyl cholinesterase depression, or is structurally related to a substance that causes delayed neurotoxicity. Glyphosate does not trigger this. Data are needed if product used for purposeful dermat application to, or prolonged exposure of, human skin; or if pesticidal use will result in comparable exposure (e.g., swimming poot) or if other study criteria are met.
075		82-3	90-Day Dermat (TGAI)	Glyphosate does not trigger this Data is required if the use may result in repeated inhalation exposure at a concentration likely to be toxic.
		82-4	90-Day Inhalation - Hat (TGAI)	The use pattern for glyphosate does not warrant this testing. Data is required if acute delayed neuroloxicity test showed neuropathy or neuroloxicity, or if closely related
		82-5	90-Day Neurotoxicity - Hen (TGAI)	structurally to a compound which can induce these effects. Glyphosate does not cause acute neurotoxicity. Data is required if acute oral, dermal or inhalation studies showed neuropathy or neurotoxicity. Glyphosate
		82-5	90-Day Neurotoxicity · Mammal (TGAI)	does not trigger this testing. Required on a case-by-case basis. The known properties of glyphosate and the registered uses do not
		86-1	Domestic Animal Safety	warrant this testing.
	40 CFR 158,	490	WILDLIFE AND AQUATIC ORGANISMS	
		71-3	Wild Mammal Toxicity (TGAI)	Tests are required on a case-by-case basis depending on the results of lower tier studies such as acute and subacute testing, intended use pattern, and pertinent environmental properties. Results from other glyphosate studies have not triggered this.
				3,7



No	J.	Study Name	EXPLANATION
APPENDIX E		EXPLANATION OF DATA NOT REQUIRED TO SUPP	
			Data are required on a case-by-case basis depending on the results of lower tier studies such as acute and
		-	subacute Mammals and Birds (TEP) testing, intended use pattern, and environmental properties. Results
/1	1-5	Simulated and Actual Field Testing	from other glyphosate studies do not trigger.
70	. ~		Results of tier one and tier two studies with Roundup and glyphosate demonstrate that these materials have
	2-7 V 2004	Simulated or Actual Field Testing - Aquatic Organisms (TEP	
40 CFR 158.540		PLANT PROTECTION	一年,中華的新聞學問題的表演,但是在實際的自己的,這個問題數也是因此。但可以們
_12	21-1	Target Area Phytotoxicity (TEP)	Data are required only for Special Review and certain public health situations.
10	20.4	The Operator of the American	Required if >25% detrimental effect in one or more plant species was found in the corresponding Tier Hest.
. 12	23-1	Tier II Seed Germination / Seedling Emergence (TGAI)	Glyphosate does not trigger this requirement.
10	24-1	Time III Teconotical Field (TFD)	Required if >25% detrimental effect in one or more plant species was found in the corresponding Tier II test.
12	24-1	Tier III Terrestrial Field (TEP)	Glyphosate does not trigger this requirement. Required if >50% detrimental effect on any plant species was found in the corresponding Tier II test.
. 10	24-2	Tier III Aquatic Field (TEP)	Glyphosate does not trigger this requirement.
40 CFR 158.590		NONTARGET INSECT	Clyphosale uses for higger unstadulement.
	1-2	Honeybee - Toxicity of Residues on Foliage (TEP)	As data from acute study indicate very low toxicity, no further testing is required.
	1-5	Field Testing for Pollinators (TEP)	As data from acute study indicate very low toxicity, no further testing is required. As data from acute study indicate very low toxicity, no further testing is required.
40 CFR 158.390		REENTRY PROTECTION	As data from active study indicate very low toxicity, no faither resulting is reduced.
40 ČĹŰ 190'98Ď	Mary 1	THE EIVINT PHOTECTION	Glyphosate is applied to undesirable grass and broadleaf weeds to control or otherwise mitigate their growth
			or competition with crops, turf or ornamentals. It is unlikely that people would contact such treated
13	12-1 thr	rough 133-4	vegetation on a regular or extended basis.
40 CFR 158.290		ENVIRONMENTAL FATE	
• •	11-4	Photodegradation In Air (TGAI or PAIRA)	Waived by the Agency on May 15, 1992.
	2-2	Anaerobic Soil (TGAI or PAIRA)	Not required if anaerobic aquatic metabolism study has been conducted.
•	3-2	Volatility - Lab (TEP)	Waived by the Agency on May 15, 1992.
	3-3	Volatility - Field (TEP)	Waived by the Agency on May 15, 1992.
10	.5-5	Volumity - Field (FEF)	The Agency has not requested any specific studies. However, glyphosate tank mix residue data are
16	4-4	Combination and Tank Mixes	available under the 40 CFR 158.240 Residue Data section of this data package.
		- Constitution with the constitution	Required if pesticide residues do not dissipate readily in soil. Glyphosate has a sufficiently short half-life in
16	4-5	Soil Dissipation, Long-Term (TEP)	soil that this study has not been required.
10 CFR 158.240		RESIDUE CHEMISTRY	



Ñ	lo.	Study Name	EXPLANATION
APPENDIX E		EXPLANATION OF DATA NOT REQUIRED TO SUPPO	ORT REGISTRATION
1	71-4	Food Handling (EP)	Data on residues in food or feed in food handling establishments are required whenever a pesticide is to be used in food/feed handling establishments. Glyphosate end-use products are not used in such establishments.
1	71-5	Reduction of Residue	Reduction of residue is required when the assumption of tolerance level residues results in an unsafe level of exposure. The registered uses of glyphosate do not frigger this requirement.
			·



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OCT ~ 5 2000

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Dr. Steve J. Wratten Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Dr. Wratten:

Subject: Roundup Ultra Herbicide (Increase Rate for Preharvest Alfalfa)

EPA Registration No. 524-475 Your Letter Dated April 30, 1999

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you submit or cite all data required for registration/ reregistration of your product when the Agency requires all registrants of similar products to submit such data.

If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely,

James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ® ULTRA HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra and this

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ROUNDUP ® ULTRA Herbicide by Monsanto

Under the Pederal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under 524 475 EPA Rog. No.

EPA Reg. No. 524-475

FOR PREHARVEST APPLICATIONS IN ALFALFA

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

® Roundup Ultra is a registered trademark of Monsanto Company.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNRUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

RECOMMENDATIONS

This product may be used in declining alfalfa stands or any stand of alfalfa where crop destruction in acceptable. This product will control labeled annual and perennial weeds, including quackgrass, when applied prior to the harvest of alfalfa.

The treated crops and weeds can be harvested and fed to livestock. Allow a minimum of 36 hours between application and harvest.

Use up to 2 quarts of this product per acre. Applications may be made at any time of the year. Make only one application to an existing stand of alfalfa per year.

For control of quackgrass, apply in the spring, late summer, or fall when quackgrass is actively growing. Control in western locations may require deep tillage following application.

For control of alfalfa, deep tillage may be required in western locations if alfalfa is drought stressed.

Do not use for alfalfa grown for seed.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

© Monsanio Company 1999

MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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EPA Form 4479-12 (5-75)

SEPA

United States

Environmental Protection Agency

Washington, DC 20460

	Registration
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	Other

Form Approved. OMB No. 2070-0060.

OPP Identifier Number

Application for	Pesticide - Section I	
1. Company/Product Number 524-475	2. EPA Product Manager 3. Proposed C Mr. James Tompkins	Classification Restricted
4. Company/Product (Name) Roundup Ultra Herbicide	PM# 25	Nestricted
5. Name and Address of Applicant <i>Unclude ZIP Code)</i> Monsanto Company 600 I3th Street, N.W., Suite 660 Washington, DC 20005	6. Expedited Review. In accordance with FIFRA S (b)(i), my product is similar or identical in composition to: EPA Reg. No.	on and labeling
Check if this is a new address	Product Name	·
Sec	tion - II	
Amendment - Explain below. Resubmission in response to Agency letter dated	Final printed labels in response to Agency letter dated "Me Too" Application. Other - Explain below.	
Notification - Explain below.	Other Explain below.	
Explanation: Use additional page(s) if necessary. (For section I and Se	ction II.)	
Preharvest alfalfa treatments at increase	d rate - submission of tolerance peti	tion
Soo	tion - III	
1. Material This Product Will Be Packaged In:	1011 - 111	
	Soluble Packaging 2. Type of Container	
Yes" Yes No No	Yes Metal Plastic Glass	
Certification must be submitted If "Yes" No. per Unit Packaging wgt. container Packaging wgt.	s" No. per Paper ge wgt container Other (Specify)	
3. Location of Net Contents Information 4. Size(s) Retail Conta	ner 5. Location of Label Directions On Label On Lebeling accompanying	product
6. Manner in Which Lebel is Affixed to Product Lithograph Paper glued Stenciled	Other	
Sec	ion - IV	
1. Contact Point (Complete items directly below for identification of indiv	idual to be contacted, if necessary, to process this applicat	ion.)
	Agricultural Regulation Telephone No. (In Director (202) 783-2	
Certification I certify that the statements I have made on this form and all attack I acknowledge that any knowingly false or misleading statement mooth under applicable law.	Race and complete. Rece as be punishable by fine or imprisonment or	Application sived
Separ / Oklas	nager, Registrations	
4. Typed Name Stephen J. Wratten, Ph.D. 5. Date	April 30, 1999	265

Explanation of Label Statements

Monsanto's first application for preharvest treatment of alfalfa was associated with Roundup Herbicide (EPA Reg. No. 524-445). The residue data and Application of Registration Amendment were submitted in R.D. 1190 dated 16-Dec-1993. The tolerance petition was assigned Pesticide Petition No. 4F4312, and the data were assigned MRID # 43077001.

In the 1993 petition, the proposed supplemental label was entitled "Preharvest Alfalfa Application for Quackgrass Control". It specified application of 1 quart/acre of Roundup Herbicide in combination with a non-ionic surfactant in 3 to 10 gallons of water. It also proposed a 24-hour preharvest interval (PHI) for alfalfa commodities following treatment. The label included a statement: "Do not use on alfalfa grown for seed production."

On 11-Sep-1995, Monsanto submitted a modified request for labeling, and submitted proposed Directions for Use specifying a 36-hour PHI and the need for deep plowing to control quackgrass. An identical label request was also submitted for Roundup Ultra Herbicide (524-475) on 20-Feb-1996. Both labels were approved on 25-Mar-1996, and are presently included in the Roundup Original Herbicide (524-445) and Roundup Ultra Herbicide (524-475) booklets. The necessary tolerances for the preharvest alfalfa use at 1 qu'acre were established 5-Apr-1996 (61 FR 15192).

The present proposed label is essentially identical to that approved for Roundup Ultra Herbicide on 25-Mar-1996, except that the maximum use rate has been increased to 2 qts/acre. The final sentences have been modified slightly to clarify that deep tillage is needed primarily in conditions of drought stress now that a higher rate can be used.



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comments regarding burden estimate or any other aspect of this collection of informat Information Management Division (2137), U.S. Environmental Protection Agency, 401 Do not send the completed form to this address.	ion, including sugge M Street, S.W., Wa	estions for reducing the burden to: Director, OPPE ashington, DC 20460.		
Certification with Respect to Citation of Data				
Applicant's/Registrant's Name, Address, and Telephone Number Monsanto Com 600 13th Street, N.W., Suite 660 Washington, DC 20005 202-783-2460	EPA Registration Number/File Symbol 524 - 475			
Active Ingredient(s) and/or representative test compound(s) Glyphosate	Date Apr 30, 1999			
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158 Terrestrial (food/non-food). Forestry, Domestic Outdoo	Product Name Roundup Ultra Herbicide			
NOTE: If your product is a 100% repackaging of another purchased EPA-registere bmit this form. You must submit the Formulator's Exemption Statement (EPA Formulator's Exemption Statement)		or all the same uses on your label, you do not need to		
I am responding to a Data-Call-In Notice, and have included with this form a be used for this purpose).	list of companies se	int offers of compensation (the Data Matrix form should		
SECTION I: METHOD OF DATA SUPP	ORT (Check one m	ethod only)		
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SECTION II: GENERAL	OFFER TO PAY			
[Required if using the cite-all method or when using the cite-all option under the selection of the selectio				
SECTION III: CERT	IFICATION			
I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses:				
I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.				
I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.				
I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.				
I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.				
gnature Supplied Supp	Date 30. Apr. 99	Typed or Printed Name and Title Stephen J. Wratten, Manager, Registriation		
PA Form 8570-34/9-97/ Electronic and Paper versions available. Submit only Paper v	<u> </u>	[Nogracion		

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Form Approved OMB No. 2070-0060



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Dale Apr 30, 1999		EPA Reg No./File Symbol 524~475		Page 10	
Applicant's/Registrant's Name & Address Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 202-783-2460		Product Roundup Ultra Herbicide			
					ingredient Glyphosate
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
171-4k	Magnitude of the Residue in Alfalfa Commodities	4307701	Monsanto	OWN	
		· 1		1	1
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171- 4 j	Magnitude of the Residue in Livestock	40532001 40532002	Monsanto	OWN	
	T .	40532002	1	T	Ţ
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For all other supporting data see the Data Matrix			Monsanto	OWN	
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Signature	Maria		Name and Title Registration Stephen J. Wratten, Manager,	 	Date 30 Apr 9

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Date Apr 30, 1999 Applicant's/Registrant's Name & Address Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 202-783-2460		EPA Reg No./Fife Symbol 524-475 Product		Page 1 of		
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Ingredient Glyphosate				· · · · · · · · · · · · · · · · · · ·	- 	
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Signature O	// //		_	Name and Title		Date
1 tuan/10	edi			Stephen J. Wratten, Manager, Registribation		30.Apr.9

SEPA Form 570-25 (9-97) Electronic and Paper versions available. Submit only Paper version.

Public File Copy

Section C Data Reference List

A complete Data Matrix for Roundup Ultra Herbicide and the Glyphosate Technical is included in the following pages. The specific data that are relevant to the present petition are as follows:

Alfalfa Residues: MRID 43077001

Livestock feeding studies: MRIDs 40532001, 40532002, and 40532003

RIN 910-02
FFA Reg Jacket # 524-475 (7099)
Page is not included in this copy.
Pages 272 through 278 are not included in this copy.
The material not included contains the following type of information:
Identity of product inert ingredients.
Identity of product inert impurities.
Description of the product manufacturing process.
Description of quality control procedures.
Identity of the source of product ingredients.
Sales or other commercial/financial information.
A draft product label.
The product confidential statement of formula.
Information about a pending registration action.
FIFRA registration data.
The document is a duplicate of page(s)
The document is not responsive to the request.
The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.

	No.	Study Name	EXPLANATION
APPENDIXE		EXPLANATION OF DATA NOT REQUIRED TO SUPPOR	T RECISTRATION
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40 CFH 158.1	5-190	PRODUCT CHEMISTRY	
	63-6	Boiling Point (TGAI)	Data is required only if the technical material is a liquid at room temperature. Glyphosate is a solid.
•	63-18	Viscosity (MP)	Data is required if the material is a liquid. Glyphosate is a solid
	63-19	Miscibility (MP)	Data is required if the material is an emulsifiable liquid. Glyphosate is a water-soluble solid.
			Data is required is the product is an emulsifiable liquid. Roundup herbicide is a ready-to-use liquid, not to be
	63-19		diluted.
			Data is required for liquid products that are used around electrical equipment. When Roundup is applied as
y the second engages of the great		mandere de la companya del companya de la companya del companya de la companya del la companya de la companya d	a herbicide there is virtually no circumstance where it would be in contact with electrical equipment.
40 CFH 158.3		TOXICOLOGY	
	81-3		Requirement waived by EPA on 1/5/88.
			Data is required if repeated contact with human skin is expected. Glyphosate is not used in a manner where
	81-6	· ·	such contact is likely.
			Not required unless lest material is an organophosphate, or a metabolite or degradation product which
	04.7		causes acetyl cholinesterase depression, or is structurally related to a substance that causes delayed
	81-7		neurotoxicity. Glyphosale does not trigger this.
			Data are needed if product used for purposeful dermal application to, or prolonged exposure of, human skin; or if pesticidal use will result in comparable exposure (e.g., swimming pool) or if other study criteria are met.
	82-3		Glyphosate does not trigger this
	02-3		Data is required if the use may result in repeated inhalation exposure at a concentration likely to be toxic.
	82-4		The use pattern for glyphosate does not warrant this testing.
	02-4		Data is required if acute delayed neurotoxicity test showed neuropathy or neurotoxicity, or if closely related
·	82-5		structurally to a compound which can induce these effects. Glyphosale does not cause acute neurotoxicity.
	02.5		Data is required if acute oral, dermal or inhalation studies showed neuropathy or neurotoxicity. Glyphosate
	82-5		does not trigger this testing.
	02 0		Required on a case-by-case basis. The known properties of glyphosate and the registered uses do not
	86-1	Domestic Animal Safety	warrant this testing.
40 CFR 158.4		WILDLIFE AND AQUATIC ORGANISMS	
त्रकार का अस्ति अस्ति । श्रिक्त स्थापनी स्थापनी स्थापनी स्थापनी स्थापनी स्थापनी स्थापनी स्थापनी स्थापनी स्थापनी स्थापनी स्थापनी	MITTER STATE OF STATE CASE	ter in in worm topig is perspekt to workgote ter to be to be to the total in the term to the term to the term to	Tests are required on a case-by-case basis depending on the results of lower lier studies such as acute and
			subacute testing, intended use pattern, and pertinent environmental properties. Results from other
	71-3	Wild Mammal Toxicity (TGAI)	glyphosate studies have not triggered this.

-	No.	Study Name	EXPLANATION
APPENDIX		EXPLANATION OF DATA NOT REQUIRED TO SUPPO	BT REGISTRATION
(Springer) Print	STATE OF THE STATE	STRUCTURE IN THE RESIDENCE OF THE PROPERTY OF	Data are required on a case-by-case basis depending on the results of lower fier studies such as acute and
			subacute Mammals and Birds (TEP) testing, intended use pattern, and environmental properties. Results
	71-5	Simulated and Actual Field Testing -	from other glyphosate studies do not trigger.
	,, 0	Simulates and Astall Field Testing	Results of tier one and tier two studies with Roundup and glyphosate demonstrate that these materials have
	72-7	Simulated or Actual Field Testing - Aquatic Organisms (TEP)	a low level of toxicity to aquatic species. Results from other studies have not triggered this requirement.
40 CFR 158		PLANT PROTECTION	
Mary Mark Charles	121-1	Target Area Phytotoxicity (TEP)	Data are required only for Special Review and certain public health situations.
	~ '-' '	raiget invalidation (i.e.,)	Required if >25% detrimental effect in one or more plant species was found in the corresponding Tier I test.
	123-1	Tier II Seed Germination / Seedling Emergence (TGAI)	Glyphosate does not trigger this requirement.
•	,_4 ,	,	Required if >25% detrimental effect in one or more plant species was found in the corresponding Tier II test.
	124-1	Tier III Terrestrial Field (TEP)	Glyphosate does not trigger this requirement.
			Required if >50% detrimental effect on any plant species was found in the corresponding Tier II test.
	124-2	Tier III Aquatic Field (TEP)	Glyphosale does not trigger this requirement.
40.CFR 158	590	NONTARGET INSECT	
क्षाः वयं वास्त्रस्य १८५० स्वतः । -	141-2	Honeybee - Toxicity of Residues on Foliage (TEP)	As data from acute study indicate very low toxicity, no further testing is required.
	151-5	Field Testing for Pollinators (TEP)	As data from acute study indicate very low toxicity, no further testing is required.
40 CFR 158	the state of the second state of the state o	REENTRY PROTECTION	
पान्य ध्वार व्याप्त स्वात	व्यवस्थानम्बद्धाः स्टब्स्	energy and the many of the section o	Glyphosate is applied to undesirable grass and broadleal weeds to control or otherwise mitigate their growth
			or competition with crops, turf or ornamentals. It is unlikely that people would contact such treated
	132-1 thr	ough 133-4	vegetation on a regular or extended basis.
40 CFR 158		ENVIRONMENTALIFATE	
neuropeantiment is	161-4	Photodegradation In Air (TGAI or PAIRA)	Waived by the Agency on May 15, 1992.
	162-2	Anaerobic Soil (TGAI or PAIRA)	Not required if anaerobic aquatic metabolism study has been conducted.
	163-2	Volatility - Lab (TEP)	Waived by the Agency on May 15, 1992.
	163-3	Volatility - Field (TEP)	Waived by the Agency on May 15, 1992.
	100-0	Commity - 1 cold (CE)	The Agency has not requested any specific studies. However, glyphosate tank mix residue data are
	164-4	Combination and Tank Mixes	available under the 40 CFR 158.240 Residue Data section of this data package.
	101 1	· · · · · · · · · · · · · · · · · · ·	Required if pesticide residues do not dissipate readily in soil. Glyphosate has a sufficiently short half-life in
	164-5	Soil Dissipation, Long-Term (TEP)	soil that this study has not been required.
40 CFR 158		RESIDUE CHEMISTRY	

APPENDIX E EXPLANATION OF DATAINOT REQUIRED TO SUPPORT REGISTRATION	North Birth Graffe by Br. M. S. Ballabar, 1974 Anniber.
APRENDIX Easilistic Easilist Exercise OF DATAMOTHEOURED TO SUPPORT REGISTRATION Easilists Easilists Easilists Easilist Easilists Easilist	等阿特斯特的特色的表现的主要
Data on residues in food or feed in food handling establishments are req	· ·
used in food/feed handling establishments. Glyphosate end-use produc	cts are not used in such
171-4 Food Handling (EP) establishments.	
Reduction of residue is required when the assumption of tolerance level	
171-5 Reduction of Residue exposure. The registered uses of glyphosate do not trigger this requirem	nent.
	•



MONSANTO COMPANY 600 13th Street, N.W. SUITE 660 WASHINGTON, D.C. 20005

Tel: (202) 783-2460 Fax: (202) 783-2468

September 14, 2000

Office of Pesticide Programs (7504C)
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Dávis Highway
Arlington, VA - 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Wiper applications of weeds in Peppermint and Spearmint

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y1-87) for the above use. This supplemental was approved by the EPA on May 1, 2000.

If you have any questions regarding this submission, please feel free to contact me through Dr. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

cc:

M. Gray

S. Wratten

Debre Hinter

Please read instructions on reverse before completing form.	Form Approved. OM8 No. 2	070-0080			
SEPA Environmental Protection A Washington, DC 20450	gency Registra Amenda X Other	1 .			
Application for	or Pesticide - Section I				
1. Company/Product Number 524-475	2. EPA Product Manager Mr. James Tompkins	3. Proposed Classification			
4. Company/Product (Name) Roundup Ultra Herbicide	PM# 25	X None Restricted			
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address	6. Expedited Review. In accorda (b)(i), my product is similar or ident to: EPA Reg. No Product Name	tical in composition and labeling			
S	ection - II				
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.	x Final printed labels in respons Agency letter dated "Me Too" Application. Other - Explain below.	5/1/2000 ·			
Print Plate No. 21137Y1-87 Section - III					
Material This Product Will Be Packaged In:	· · · · · · · · · · · · · · · · · · ·				
Yes Yes No No No Per If	ater Soluble Packaging Yes No Yes* No. per sickage wgt container	f Container Metal Plastic Glass Peper Other (Specify)			
3. Location of Net Contents Information 4. Size(s) Retail Co	On Labe				
6. Manner in Which Label is Affixed to Product Lithograph Other Paper glued Stenciled					
Section - IV					
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Dr. Marsha Gray Title Registration Manager (202) 783-2460					
Certification + certify that the statements I have made on this form and all at I acknowledge that any knowingly false or misleading statement both under applicable law.	ttachments therato are true, accurate and or it may be punishable by fine or imprisonmen	6. Data Application Eccsived t or (Stamped)			
2. Signature 3. Tel	de Registration Specialist				

5. Date

Debra Hinton

4. Typed Name

September 14, 2000

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per pansa, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and ewing the collection of information. Send-convitents regarding the burden estimate or any other aspect of this collection of information, including gestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, shington, DC 20460.

<u>STRUCTIONS:</u> This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the pwing material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). Ilf not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 5. Authorization letter where applicable;
- 7. Matrices where applicable.

mission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be he form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be structed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 11 inch paper for submission.

mission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

ECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration on, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, fications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

ak A - Check the appropriate action for which you are submitting this form.

CTION I - This section must be completed, as applicable, for all registration actions.

Company/Product Number - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.

EPA Product Manager - If known, fill in the name and PM number of the EPA Product Manager.

Proposed Classification - Specify the proposed classification of this product.

Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations. Name and Address of Applicant - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

Expedited Review - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registration that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

CTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product neudment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for agistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for istration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

CTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new istration or applicable emendments.

Type of Packaging - Check the enpropriate block if your product will be packaged in the indicated packaging types.

Indicate the size of the individual packets and number per retail container.

Type of Retail Container - Indicate type of container in which product will be marketed.

Location of Net Containts - Indicate the location of the net contents information for your product.

Sizels) of Retail Container - Specify the net contents of all retail containers for your product.

Location of Usc Directions - Indicate the location of the use directions for your product.

Manner in which tabal is affixed to product - Indicated the method product label is attached to retail container.

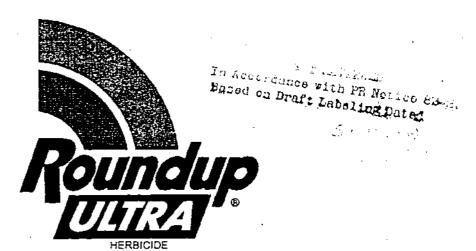
CTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, ubmission, "me-too," reregistration, etc.

Self-explanatory.
 EPA Use Only.

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ready and Roundup Ultra are registered trademarks of Monsanto Company.

WIPER APPLICATIONS OF WEEDS IN PEPPERMINT AND SPEARMINT

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

USE INSTRUCTIONS: This product may be used in wiper applications in peppermint and spearmint. For more information on wiper applications, see the "APPLICATION EQUIPMENT AND TECHNIQUES" section of the label booklet for Roundup Ultra herbicide.

Applicators should be adjusted so that the wiper contact point is at least 2 inches above the crop. Weeds should be a minimum of 6 inches taller than the crop. Better results may be

obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when height of weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. Better results may be obtained if 2 applications are made in opposite directions.

PRECAUTIONS, RESTRICTIONS: Contact of the herbicide solution with mint may result in damage or destruction. Allow at least 7 days between application and harvest. Sequential application may be made in the same area at 30-day intervals.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

21137Y1-87

5/1/2000

proved. OMB No. 2070-0044.

Environmental Protection Agency

147738

Office of Pesticide Programs (7505C)

Washington, DC 20460

Notice of Supplemental Distribution of a Registered Pesticide Product

Instructions

After a registrant has obtained final registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationery, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product

6-LA-01

e of Registered Product (basic product name accepted by EPA)

Note: Do not submit distributor product labels Distributor Product Name

ROUNDUP ULTRA

ROUNDUP ULTRA

Name and Address of Distributor (Type; include ZIP code)

POINTE COUPER FARMERS CO-OP 5087 LA HWY 1 P.O. BOX 100 BATCHELOR, LA 70715

Read All Conditions Before Signing

- 1. The distributor product must have the same composition as the basic product.
- 2. The distributor product must be manufactured and packaged by the same person who manufactures and packages the registered basic product.
- 3. The labeling for the distributor product must bear the same claims as the basic product, provided, however, that specific claims may be deleted if by doing so, no other changes to the label are necessary.
- .. The product must remain in the manufacturer's unbroken container.
- 5. The label must bear the EPA registration number of the basic product, followed by a hyphen and the distributor's company number.
- 6. Distributor product labels must bear the name and address of the distributor qualified by such terms as "packed for...", "distributed by..."; or "sold by..." to show that the name is not that of the manufacturer.
- 7. All conditions of the basic registration apply equally to distributor products. It is the responsibility of the basic registrant to see that all distributor labeling is kept in compliance with requirements placed on the basic product.

Distributor

We intend to market our product under the Distributor Product Name specified above, subject to the conditions specified on this Notice.

nature and Title of Distributor

MANAGER

4/10/2000

Registrant

I agree that the distributor named above may distribute and sell the Distributor Product specified above, subject to the conditions specified on this Notice.

Signature and Title of Registrant

8570-5 (Rev. 8-94)

🚉 U.S. GPO: 1999 - 449-616/15102

August 25, 2000

Monsanto.Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2468

Hand Delivered

Office of Pesticide Programs (7504C)
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Use only for Seed Production of Alfalfa with the

Roundup Ready Gene

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y2-83) for the above use. This supplemental was approved by the EPA February 16, 2000. The minor changes to this supplemental are as follows:

The word "Herbicide" has been inserted under the name "Roundup Ultra".

A new print plate number has been assigned.

If you have any questions regarding this submission, please feel free to contact me through Dr. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

CC:

M. Gray

Lebes Henton

A. Kirk

\$EPA	Environmental P	ed States Protection on, DC 20450	•		Registra Amendn Other	1	OPP Identifier Number
	A	plication	for Pesticio	Je - Secti	on I		
1. Company/Product Number	524-475			roduct Manag James To			posed Classification .
4. Company/Product (Name) Roundup U	ltra Herbicide		PM#	25			None Restricted
Washington, DC	ny t, N.W., Suite ((b)(i), n to: EPA F	ny product is	similar or identi	ical in con	FIFRA Section 3(c)(3) inposition and labeling
			Section - I	1			
Amendment - Explain Resubmission in resp Notification - Explain	onse to Agency letter da	ted	×	Final printed i Agency letter "Me Too" Ap Other - Explai		2/16/	/2000
Explanation: Use eddition Print Plate	No. 21137Y2-83	(For section I	and Section II.}	· ·			
			Section - I	i I			
1. Material This Product Will	Be Packaged In:						
Child-Resistant Packaging Yes* No * Certification must be submitted		No. per container	Water Soluble P Yes No If "Yes" Package wgt	No. per	2. Type of	Container Metal Plastic Glass Paper Other (S	pecify)
3. Location of Net Contents	Information 4.	Size(s) Retail	Container	5	5. Location of Lab On Labeli		ns panying product
5. Manner in Which Label is	Affixed to Product	Lithogra Paper gl Stancile	red .	Other	<u></u> -		
			Section - I'		<u> </u>		
1. Contact Point Complete	items directly below for	identification	of individual to b	contacted, if	necessary, to pro	cess this	application.)
Nama Dr. Marsha G	ray	T	Registr	ation Man	Į.	•	No. (Include Area Code) 783-2460
	ments I have made on thi y knowingly false or mist law.	leading staten	l attachments the				8. Date Application Received (Stamped)
	be Hend			ration Sp	ecialist		
4. Typed Name Debra	Hinton	5.	Date	9/25/	2000		308

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0050

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- . 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Lebeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registration, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to smend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purposa(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION [II] (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Constinue of Net Contents Indicate the location of the net contents information for your product.
- 4. size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Lucation of Use Directions Indicate the location of the use directions for your product.
- 6. Mainer in which label is affixed to product indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-tuo," reregistration, etc.

- 1-5. Salf-explanatory.
- 6. EPA Use Only.

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

USE ONLY FOR SEED PRODUCTION OF ALFALFA WITH THE ROUNDUP READY® GENE

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, OTHER THAN ALFALFA WITH THE ROUNDUP READY GENE, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

NOTE: THIS PRODUCT MAY BE USED FOR CONTROL OF NON-GLYPHOSATE TOLERANT ALFALFA IN PRODUCTION FIELDS OF ALFALFA CONTAINING THE ROUNDUP READY GENE. SEVERE INJURY OR DEATH OF ALFALFA WILL RESULT IF ALFALFA VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

USE RECOMMENDATIONS

This product will control non-glyphosate tolerant alfalfa in seed production fields of alfalfa containing the Roundup Ready

gene. Apply up to 64 fluid ounces of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. Subsequent applications of up to 64 fluid ounces per acre each may be applied, if needed to control non-glyphosate tolerant alfalfa plants.

DO NOT EXCEED A MAXIMUM RATE OF 8 QUARTS OF THIS PRODUCT PER ACRE PER SEASON.

Application timing—This product can be applied to Roundup Ready alfalfa from emergence to harvest.

Treated alfalfa or the resulting seed may not be used for food or feed. Do not feed or graze treated alfalfa. Do not process treated alfalfa or resulting seed for food or feed.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

21137Y2-83

2/16/2000

3/0

Monsanto Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005

TEL: (202) 783-2460 FAX: (202) 783-2468

July 13, 2000

Office of Pesticide Programs 7504C
Document Processing Desk (AMEND)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject::

Roundup Ultra Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Post Harvest Spot-Treatment of Weeds in Cranberry Bogs

Dear Mr. Tompkins,

Monsanto is submitting for your files three (3) copies of the final printed supplemental label for Roundup Ultra (EPA Reg. No. 524-475, Print Plate No. 21137Y1-85) for the above use. This supplemental was approved by the EPA May 1, 2000. The following modifications have been made:

- Under "Directions for Use" section, we've eliminated the second "Directions for Use" title.
- Under "Use Instructions", we've changed "½ to 1%" to read ".05 to 1 percent".

If you have any questions regarding this submission, please feel free to contact me through Dr. Marsha Gray or directly at (314) 694-9036.

Sincerely,

Debra Hinton

Registration Specialist

CC:

M. Gray

S. Wratten

Celia Hinton

Please read instructions on n	everse before comple	ting form.		Form Approved.	OMB No. 201	70-0060	
≎EPA	Environmenta	United States		x	Registrat Amendm Other	ion	OPP Identifier Number
		Application	n for Pestici	de - Section	<u> </u>	•	
1. Company/Product Number	524-475	ı	4	Product Manager James Tompk	ins	·	oposed Classification
4. Company/Product (Name) Roundup Ultra			PM#	25		T KX	None Restricted
5. Name and Address of App Monsanto Compar 600 13th Street Washington, DC	ny t, N.W., Suite		(b)(i), n to:		nilar or identic	cal in cor	FIFRA Section 3(c)(3) mposition and labeling
Check if this	is a new address		Produ	ict Name	:	.,.	···
· · · · · · · · · · · · · · · · · · ·	<u></u>		Section - I				
Amendment · Explain Resubmission in reapo	onse to Agency letter	dated		Final printed labe Agency letter dat "Me Too" Applica	ted . ation.	to	5/1/2000
Notification - Explain	below.	-··-		Other - Explain be	alow.		·····
Explanation: Use addition		•	2113Y1-85				
			Section - I	i i			
1. Material This Product Will	Be Packaged In:		·		·		
Child-Resistent Packeging Yes No Certification must	Unit Packaging Yes No H:"Yes"	No. per	Water Soluble P	No. per	2. Type of C	Metal Plastic Glass Paper	,
be submitted	Unit Packaging wgt.	container	Package wgt	container	ļ Ļi	Other (S	pecify)
3. Location of Nat Contents I	Information ontainer	4. Síze(s) Reta	il Conteiner	5. Lo	Cation of Label On Label On Labelin		ns panying product
6, Manner in Which Label is a	Affixed to Product	Lithogra Paper g Stencila	lued ed	Other	-		
·			Section - I				
1. Contact Point Complete i	items directly below f	or identification	of individual to b	e contacted, if nec	essery, to proc	cess this	appiication.)
Dr. Marsha	Gray		Title Registra	ition Manage	1		No. (Include Area Code) 783-2460
I certify that the staten I acknowledge that any both under applicable I	y knowingly felse or m		all attachments the		-		8, Duta / pplication Received (Stamped)
?. Signature	bre Hin		.Tide Regis	stration Spe	cialist		_ •
Typed Name Debra	Hinton	5	i. Date July	13, 2000			3/2

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send-comflents regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agancy, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)]:
- 2. Confidential Statement of Formula (EPA Form 8570-4):
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label, if prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a
 basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only.

 Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registration that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that partains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "yeneral label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new egistration or applicable amendments.

- Type of Packaging Check the engrapriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per ratell container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 1. Size(s) of Retail Container Spacify the net contants of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 3. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

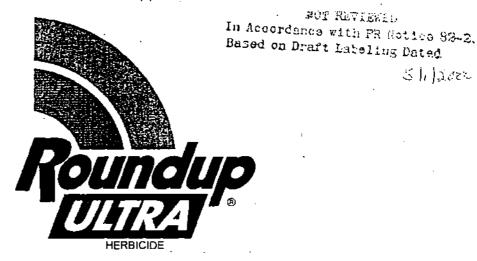
ECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, ssubmission, "me-tuo," reregistration, etc.

- -5. Self-explanatory.
- EPA Use Only

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra is a registered trademark of Monsanto Company.

BUT REVIEWED

5/1/2002

POST HARVEST SPOT-TREATMENT OF WEEDS IN CRANBERRY BOGS.

Keep out of reach of children. CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS); DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

USE INSTRUCTIONS: Application of this product may be made after the harvest of cranberries to control weeds growing within the field. Best results will be obtained if applications are made to vines that appear dormant (after they have turned red). Hand-held sprayers, wipers, or other appropriate application equipment listed under "APPLICATION EQUIPMENT AND TECHNIQUES in the Roundup Ultra herbicide label booklet may be used. If using hand-held sprayers, use a 0.5 to 1 percent solution of Roundup Ultra herbicide on a volume-to-volume basis with water. Spray to wet vegetation, not to run-off. If using hand-held boom sprayers, apply 2 to 4 quarts of this product per acre.

PRECAUTIONS, RESTRICTIONS: Make applications only after cranberries have been harvested. Do not treat more than 10 percent of the total bog. Allow a minimum of 6 months after last application and next harvest of cranberries. Do not apply this product through the irrigation system. Do not make applications by air. Do not apply directly to water.

Even though vines appear dormant, contact of the herbicide solution with desirable vegetation may result in damage or severe plant injury. Cranberry plants that are directly sprayed may be killed. Use nozzles that emit medium to targe-sized droplets to minimize drift. The likelihood of crop injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing, or when there are other meteurological conditions that favor spray drift. Avoid drift. Extreme care must be used when applying this product to avoid injury to desirable plants and crops.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

21137Y1-85

5/1/2000

Monsanto Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005 Tel.: (202) 783-2460

Fax: (202) 783-2468

July 11, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Pro Herbicide (EPA Reg. No. 524-475) Submission of Final Printed Bilingual Label Booklet

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed label for Roundup Pro Herbicide (EPA Reg. No. 524-475, Print Plate No. 21136Y3-26/53 dated 2000-2). This is the bilingual version of the label approved by the EPA on January 13, 1999. Monsanto certifies that this label is an accurate translation of the English. The modifications made to this label are as follows:

- Under 1.0 "Ingredients" we've replaced "Inert" with "Other".
- Under 4.0 "Storage and Disposal", we've elected to incorporate all container disposal statements; also
 in accordance to PR Notice 83-3, we have added "the exact wording" for metal containers.
- Under 7.0 "Application Equipment and Techniques" we've added "Spray Drift Management".

If you have any questions regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

C¢:

М. Gray

A. M. Kirk

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SEPA	L Environmenta	nited States	•	Form Approved	Registrat Amendm Other	ion	OPP Identifier Number
		Application	n for Pestici	de - Section	1		<u> </u>
1. Company/Product Number	524-475			Product Manager James Tompl	kins	1 —	oposed Classification
4. Company/Product (Name) Roundup Pro H	erbicide		PM#	25			None Restricted
5. Name and Address of App Monsanto Compar 600 13th Stree Washington, DC	ıy t, N.W., Suit∈		(b)(i), r to: EPA I		nilar or identic	al in co	FIFRA Section 3(c)(3) mposition and labeling
			Section -				
Amendment - Explain Resubmission in response Notification - Explain	onse to Agency letter	berab	×	Final printed labe Agency latter da "Me Too" Applic Other - Explain b	sation.	to 1/.	13/1999
Print	Plate No. 211	36Y3-26/53	Section - I	 		,	
1. Material This Product Will	Be Packaged In:						-
Child-Resistent Peckeging Yes* No * Certification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per container	Yes No If "Yes" Package wgt	Packaging No. per container	2. Type of C	ontainer Metal Plastic Glass Paper Other (S	pecity)
3. Location of Net Contents I	nformation onteiner	4. Size(s) Reta	il Container	5. 6	ocetion of Label On Lebel On Labelin		ons Ipanying product
5. Mannar in Which Label is	Affixed to Product	Lithogra Paper g Stencile	aph Iued id	Other			
			Section - I	V	•		
. Contact Point /Complete	items directly below I	or identification	of individual to b	e contacted, if ne	cessary, to proc	ess this	application.)
Dr. Marsha	Gray	7	Title Regis	tration Mana			e Na. (include Area Code)) 783-2460
I certify that the stater I acknowledge that an both under applicable I	y knowingly false or r	nisleading state	all attachments th ment may be pun	•			8. Date Application - Received (Stamper)
. Signature	41.	3	.Title Registr	ation Specia	alist		

5. Date

July 11, 2000

Debra Hinton

. Typed Name

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- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
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Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Date submitted in support of this application must be submitted in accordance with PR Notice 85-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not parmitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of enother party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (8) provides for expedited review of applications for registration, or amendments to existing registratio that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

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1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Astall Container Indicate type of container in which product will be marketed.
- 3. Location of Net Conter to Indicate the location of the net contents information for your product,
- 4. Exelcit) Retail Container Specify the net contents of all retail containers for your product.
- 5. Lemtion of Use Directions Indicate the location of the use directions for your product.
- 8. Marras in which lakel is affixed to product indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-(no," reregistration, etc.

- 1-5. Self-explanatory,
- 5. EPA Use Only.

21136Y3-26/53

MUT REVIEWED

In Accordance with PR Notice E3-2. Began Draft Labeling Dated



The complete broad spectrum postemergence professional herbicide for industrial, turf and ornamental weed control.

Complete Directions for Use

EPA Reg. No. 524-475

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION IS LIKELY TO RESULT.

Roundup Pro is a registered trademark and Monsanto and the Vine symbol are trademarks of Monsanto Company.

2000-2



The complete broad spectrum postemergence professional herbicide for industrial, turf and ornamental weed control.

Complete Directions for Use

EPA Reg. No. 524-475

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION IS LIKELY TO RESULT.

Roundup Pro is a registered trademark and Monsanto and the Vine symbol are trademarks of Monsanto Company.

2000-2

Read the entire label before using this product.

Use only according to label instructions.

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Not all products recommended on this label are registered for use in California. Check the registration status of each product in California before using.

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of the label before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULA-TION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACK-AGING LIMITATIONS.

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.0 INGREDIENTS

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt
OTHER INGREDIENTS (including surfactant): 41.0% 59.0%

*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

This product is protected by U.S. Patent No. 4,405,531 and by U.S. Patent No. 5,703,015. Other patents pending. No license granted under any non-U.S. patent(s).

2.0 IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE.

1-800-332-3111.

2. IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, OR FOR MEDICAL ASSISTANCE, CALL COLLECT, DAY OR NIGHT, (314)-694-4000

3.0 PRECAUTIONARY STATEMENTS

3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

CAUSES EYE IRRITATION.

Avoid contact with eyes or clothing.

FIRST AID: If IN EYES, flush with plenty of water. Get medical attention if irritation persists.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarchea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside.
 Then wash thoroughly and put on clean clothing.

3.2 Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Oo not contaminate water when disposing of equipment washwaters

3.3 Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, liberglass, plastic or plastic-lined steel containers.

PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS 6

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. On not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: coveralls, waterproof gloves, shoes plus socks.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (40 CFR Part 170) for agricultural pesticides. The WPS applies when this product is used to produce agricultural plants on farms; forests, durseries or greenhouses:

Keep people and pets off treated areas until spray colution.

Keep people and pets off treated areas until spray solution has dried to prevent transfer of this product onto desirable vegetation.

4.0 STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

FOR REFILLABLE PORTABLE CONTAINERS:

Do not reuse this container except for refill in accordance with a valid Monsanto Repackaging or Toll Repackaging Agreement. If not refilled or returned to the authorized repackaging facility, triple rinse container, then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

FOR METAL CONTAINERS (non-aerosol):

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

STORAGE AND DISPOSAL

STORAGE AND DISPOSAL

FOR BULK CONTAINERS

Triple rinse emptied bulk container. Then offer for recycling or reconditioning, or dispose of in a manner approved by state and local authorities.

FOR PLASTIC 1-WAY CONTAINERS & BOTTLES:

Do not reuse container. Triple rinse container, then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

FOR DRUMS:

Do not reuse container. Return container per the Monsanto container return program. If not returned, triple rinse container, then puncture and dispose of in a sanitary, landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

5.0 GENERAL INFORMATION

Product Description: This product is a postemergent, systemic herbicide with no soil residual activity. It gives broad spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble figuid containing surfactant and no additional surfactant is needed or recommended.

Environmental Fate: When this product comes in contact with the soil it is bound to soil particles. When used in accordance with label directions, once this product is bound it is not available for plant uptake and will not harm off-site vegetation where roots grow into the treatment area or if the soil is transported off-site. The strong affinity of this product to soil particles prevents this product from leaching out of the soil profile and entering ground water. The affinity between this product and soil particles remains until this product is degraded, which is primarily a biological degradation process carried out under both aerobic and anaerobic conditions by soil microflora.

Time to Symptoms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above-ground growth and deterioration of underground plant parts.

Mode of Action in Plants: The active ingredient in this product inhibits an enzyme found only in plants that is essential to formation of specific amino acids.

Cultural Considerations: Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut, and have not been allowed to regrow to the recommended stage for treatment.

Raintastness: Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate control:

No Solf Activity: Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide.

Volatility: Roundup Pro herbicide is non-volatile. Therefore, it cannot move as a vapor after application to affect nearby vegetation.

Toxicology: Exposure to workers and other applicators generally is expected to pose minimal risks based on results of short-term toxicity studies. Glyphosate has been thoroughly tested and determined not to cause cancer or other adverse long-term health effects.

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Tank Mixing: This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this label. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

Annual Maximum Use Rate: The combined total of all treatments must not exceed 10.6 quarts of this product per acre per year.

ATTENTION

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS. EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIR-ABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelinood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that tavor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift, AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

6.0 MIXING

Clean sprayer parts immediately after using this product by thoroughly flushing with water.

NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS VISIBLY MUDDY WATER OR WATER FROM PONDS AND DITCHES THAT IS NOT CLEAR.

6.1 Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the recommended amount of this product near the end of the filling process and mix well. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations. During mixing and application foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

6.2 Tank Mixing Procedure

When tank mixing, read and carefully observe label directions, cautionary statements and all information on the labels of all products used. Add the tank-mix product to the tank as directed by the label. Maintain agitation and add the recommended amount of this product.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle,

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thorough agitation may be required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near the bottom of the tank to minimize loaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

Refer to the "TANK MIXING" section of "GENERAL INFOR-MATION" for additional precautions.

6.3 Mixing for Hand-Held Sprayers

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

Spray Solution

44.91						
Desired		Am	ount of F	Roundup	PRO .	
Volume	1/2%	1%	11/2%	2%	5%	10%
		11/3 oz				13 oz
25 Gal		1 qt				10 qt
100 Gal		1 gal				10 gal
	2	tablespo	ons = 1 f	luid oun	ce	

For use in backpack, knapsack, or pump-up sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution

6.4 Colorants or Dyes

Agriculturally-approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilution. Use colorants or dyes according to the manufacturer's recommendations.

7.0 APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAIN-TAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIV-ERING DESIRED VOLUMES.

SPRAY DRIFT MANAGEMENT

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower arefix responsible for considering all these factors when making decisions.

AERIAL SPRAY DRIFT MANAGEMENT

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications or to public health uses.

- The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzleş must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.

Importance of droplet size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see the Wind, Temperature and Humfdity, and Temperature Inversion sections of this label).

Controlling droptet size

- Volume: Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with the higher rated flows produce larger droplets.
- Pressure: Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy protection. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles: Use the minimum number of nozzles that provide uniform coverage.
- Nozzle orientation: Orienting nozzles so that the spray is released backwards, parallel to the airstream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle type: Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce targer droptets. Consider using lowdrift nozzles. Solid stream nozzles oriented straight back produce larger droptets than other nozzle types.
- Boom Length: For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.
- Application Height: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

Swalh Adjustment

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller droplets, etc.).

Wind

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including dropfet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often

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continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

7.1 Aerial Equipment

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS. This product plus BanvelTM or 2.4-D tank mixtures may not be applied by air in California.

AVOID DRIFT—DO NOT APPLY DURING LOW-LEVEL INVERSION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS ORIFT. DRIFT IS LIKELY TO CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Avoid direct application to any body of water,

Use the recommended rates of this herbicide in 3 to 25 gallons of water per acre.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as tine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Ensure uniform application—To avoid streaked, uneven or overlapped application, use appropriate marking devices.

PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion. To prevent corrosion of exposed parts, thoroughly wash aircraft after each day of spraying to remove residues of this product accumulated during spraying or from spills. Landing gear are most susceptible.

7.2 Ground Broadcast Equipment

Use the recommended rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

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7.3 Hand-Held and High-Volume Equipment

Apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of funoit. Use coarse sprays only.

For control of weeds listed in the "ANNUAL WEEDS" section of "WEEDS CONTROLLED," apply a 0.5 percent solution of this product to weeds less than 6 inches in height or runner length. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1 percent solution. Apply prior to seed-head formation in grass or bud formation in broadleat weeds.

For best results, use a 2 percent solution on harder-tocontrol perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

For low volume directed spray applications, use a 5 to 10 percent solution of this product for control or partial control of annual weeds, perennial weeds, or woody brush and trees. Spray coverage should be uniform with at least 50 percent of the foliage contacted. Coverage of the top one-hall of the plant is important for best results. To ensure adequale spray coverage, spray both sides of large or tall woody brush and trees, when foliage is thick and dense, or where there are multiple sprouts.

7.4 Selective Equipment

This product may be applied through recirculating spray systems, shielded applicators, hooded sprayers, wiper applicators or sponge bars after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label.

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation, while spray solu-

fion not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded or hooded applicator directs the herbicide solution onto weeds, while shielding desirable vegetation from the herbicide.

A wiper or sponge applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETA-TION AS SERIOUS INJURY OR DEATH IS LIKELY TO OCCUR.

Applicators used above desired vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation. Droplets, mist, foam or splatter of the herbicide solution settling on desirable vegetation is likely to result in discoloration, stunting or destruction.

Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe intestations or when the height of the weeds varies so that not all weeds are contacted, in these instances, repeal treatment may be necessary.

Shielded and hooded applicators

Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.

Wiper applicators and sponge bars

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure ade-

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quate wiper saturation. Better results may be obtained if 2 applications are made in opposite directions.

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate comact with weeds. Keep wiping surfaces clean. Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

Do not use wiper equipment when weeds are wet

Mix only the amount of solution to be used during a 1-day period, as reduced activity may result from use of leftover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water.

For Rope or Sponge Wick Applicators—Solutions ranging from 33 to 75 percent of this product in water may be used.

For Porous-Plastic Applicators and pressure-leed systems—Solutions ranging from 33 to 100 percent of this product in water may be used.

When applied as recommended, this product CONTROLS the following viceds:

Corn, volunteer Panicum, Texas Sicklepod Spanishneedles Starbur, bristly

Rye, common Shattercane

When applied as recommended, this product SUPPRESSES the following weeds:

Beggarweed, Florida Bermudagrass Dogbane, hemp Dogfennel Guineagrass Johnsongrass Ragweed, common Ragweed, giant Smutgrass Sunflower Thistle, Canada Thistle, musk Vaseygrass Velvetleat

Milkweed Nightshade, silverleaf Pigweed, redroot

7.5 Injection Systems

This product may be used in aerial or ground injection spray systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. On not mix this product with the undiluted concentrate of other products when using injection systems unless specifically recommended.

7.6 CDA Equipment

The rate of this product applied per acre by controlled droplet application (CDA) equipment must not be less than the amount recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply 3 to 15 gallons of water per acre.

CDA equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or destruction is likely to result.

8.0 SITE AND USE RECOMMENDATIONS

Detailed instructions follow alphabetically, by site.

Unless otherwise specified, applications may be made to control any weeds listed in the annual, perennial and woody brush tables. Refer also to the "SELECTIVE EQUIPMENT" section.

8.1 Cut Stumps

Cut stump treatments may be made on any site listed on this label. This product will control many types of woody brush and tree species, some of which are listed below. Apply this

product using suitable equipment to ensure coverage of the entire cambium. Cut trees or resprouts close to the soil surface. Apply a 50 to 100 percent solution of this product to the freshly-cut surface immediately after cutting. Delays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full leat expansion.

Saltcedar Sweetoum Eucalyptus Tan oak Madrone Willow Oak

DO NOT MAKE CUT STUMP APPLICATIONS WHEN THE Reed, giant ROOTS OF DESIRABLE WOODY BRUSH OR TREES MAY BE GRAFTED TO THE ROOTS OF THE CUT STUMP, INJURY RESULTING FROM ROOT GRAFTING IS LIKELY TO OCCUR IN ADJACENT WOODY BRUSH OR TREES.

.2 General Noncrop Areas and Industrial Sites

Use in areas such as airports, apartment complexes, Christmas Iree larms, ditch banks, dry ditches, dry canals, fencerows, golf courses, industrial sites, lumberyards, manufacturing sites, office complexes, ornamental nurseries, parks, parking areas, petroleum tank farms and pumping installations, railroads, recreational areas, residential areas, roadsides, sod or turl seed farms, schools, storage areas. utility substations, warehouse areas, other public areas, and similar industrial and noncrop sites.

General weed control, Trim-and-edge and Bare ground

This product may be used in general noncrop areas. It may be applied with any application equipment described in this label. This product may be used to trim-and-edge around objects in noncrop sites, for spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This prod-

uct may be used prior to planting an area to ornamentals. flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

Repeated applications of this product may be used, as weeds emerge, to maintain bare ground.

This product may be tank mixed with the following products. Refer to these products' labels for approved noncrop sites and application rates.

PENDULUM™ 3.3 EC **ARSENAL™** PENDULUM WDG BANVEL BARRICADE™ 65WG PLATEAUM PRINCEP™ DF DIURON PRINCEP LIQUIO ENDURANCE™ RONSTARIM 50 WP ESCORTTM SAHARAT* GARLON™ 3A SIMAZINE **GARLON 4** KARMEXTM DF SURFLANT¹ TELARIM KROVAR™ I DE VANQUISH™ MANAGE® 2.4-D OUST®

Banvel and 2,4-D tank mixtures may not be applied by air in

When applied as a tank mixture for bare ground, this product provides control of the emerged annual weeds and control or partial control of emerged perennial weeds, woody brush and trees.

For control or partial control of the following perennial weeds, apply 1 to 2 quarts of this product plus 2 to 4 ounces of Oust per acre.

Fescue, tall Rahiagrass Johnsongrass Bermudagrass Poorioe Broomsedge Quackgrass Dallisgrass Vaseygrass Dock, curty Vervain, blue

Chemical mowing—Perennials

This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 8 fluid ounces of this product per acre when treating tall fescue, fine fescue, orchardgrass or quackgrass covers. Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass. Apply treatments in 10 to 40 gallons of soray solution per acre.

Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

Chemical mowing—Annuals

For growth suppression of some annual grasses, such as annual ryegrass, wild barley and wild oats growing in coarse turf on roadsides or other industrial areas, apply 4 to 5 fluid ounces of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments may cause injury to the desired grasses.

Dormant lurfgrass

This product may be used to control or suppress many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass turf. Treat only when turf is dormant and prior to spring greenup.

Apply 8 to 64 fluid ounces of this product per acre. Apply the recommended rates in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated.

Treatments in excess of 16 fluid ounces per acre may result in injury or delayed greenup in highly maintained areas, such as golf courses and lawns. DO NOT apply tank mixtures of this product plus Oust in highly maintained turfgrass areas. For further uses, refer to the "ROADSIDES" section of this label, which gives rates for dormant bermudagrass and bahiagrass treatments.

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Actively growing bermudagrass

This product may be used to control or nartially control many annual and perennial weeds for effective release of actively growing bermudagrass. DO NOT apply more than 16 fluid ounces of this product per acre in highly maintained turfgrass areas. DO NOT apply tank mixtures of this product plus OUST in highly maintained turfgrass areas. For further uses, refer to the "ROADSIDES" section of this label, which gives rates for actively growing bermudagrass treatments. Use only in areas where some temporary injury or discoloration can be toterated.

Turfgrass renovation, seed, or sod production

This product controls most existing vegetation prior to renovating turfgrass areas or establishing turfgrass grown for seed or sod. For maximum control of existing vegetation, delay planting or sodding to determine it any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses such as bermudagrass, summer or fall applications provide the best control. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular moving to allow sufficient growth for good interception of the spray.

Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical moving, coring or slicing should be delayed for 7 days after application to allow translocation into underground plant parts.

Desirable turfgrasses may be planted following the above procedures

Hand-held equipment may be used for spot treatment of unwanted vegetation growing in existing turfgrass. Broadcast or hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is hangeted.

Do not feed or graze furifyrass grown for seed or sod production for 8 weeks following application.

8.3 Habitat Management

Habitat restoration and management

This product may be used to control exotic and other undesirable vegetation in habital management and natural areas, including rangeland and wildlife refuges. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broad spectrum vegetation control requirements. Spot treatments can be made to selectively remove unwanted plants for habitat management and enhancement.

Wildlife food plots

This product may be used as a site preparation treatment prior to planting wildlife lood plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage to allow translocation into underground plant parts.

8.4 Injection and Frill (Woody Brush and Trees)

This product may be used to control woody brush and trees by injection or frill applications. Apply this product using suitable equipment which must penetrate into the living its-sue. Apply the equivalent of 1 ml of this product per each 2 to 3 inches of trunk diameter at breast height (DBH). This is best achieved by applying a 50 to 100 percent concentration of this product either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow

runoff to occur from frilled or cut areas in species that exude sap freely. In species such as this, make the frill or cuts at an oblique angle to produce a cupping effect and use a 100 percent concentration of this product. For best results, application should be made during periods of active growth and after full leaf expansion. This product will control many species, some of which are listed below:

Control Partial Control
Oak Black gum
Poptar Dogwood
Sweetgum Hickory
Sycamore Maple, red

8.5 Ornamentals and Plant Nurseries, Christmas Trees

Post-directed, Trim-and-edge

This product may be used as a post-directed spray around established woody ornamental species such as arborvitae, azalea, boxwood, crabapple, euonymus, fir, douglas fir, jojoba, hollies, tilac, magnolia, maple, oak, privet, pine, spruce and yew. This product may also be used to trim and edge around trees, buildings, sidewalks and roads, potted plants and other objects in a nursery setting.

Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established ornamental species.

Site preparation

This product may be used prior to planting any ornamental, nursery or Christmas tree species.

Greenhouse/Shadehouse

This product may be used to control weeds growing in and around greenhouses and shadehouses. Desirable vegetation must not be present during application and air circulation lans must be turned off.

8.6 Parks, Recreational and Residential Areas

This product may be used in parks, recreational and residential areas. It may be applied with any application equipment described in this label. This product may be used to trimand-edge around trees, fences, paths, around buildings, sidewalks, and other objects in these areas. This product may be used for spot treatment of unwanted vegetation. This product may be used to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting an area to ornamentals. (lowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

All of the instructions in the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section apply to park and recreational areas.

8.7 Railroads

All of the instructions in the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section apply to railroads.

Bare ground, Ballast and Shoulders, Crossings, and Spot treatment

This product may be used to maintain bare ground on railroad ballast and shoulders. Repeat applications of this product may be used, as weeds emerge, to maintain bare ground. This product may be used to control tall-growing weeds to improve line-of-sight at railroad crossings and reduce the need for moving along rights-of-way. For cross-

ing applications, up to 80 gallons of spray solution per acre may be used. This product may be tank mixed with the following products for ballast, shoulder, spot, bare ground and crossing treatments:

ARSENAL KROVAR I DE BANVEL OUST DIURON SAHARA ESCORT SPIKE™ GARLON 3A TELAR GARLON 4 - 2.4-D HYVAR™ X

Brush control

This product may be used to control woody brush and trees on railroad rights-of-way. Apply 4 to 10 quarts of this product per acre as a broadcast spray, using boom-type or boomless nozzles. Up to 80 gallons of spray solution per acre may be used. Apply a 3/4 to 2 percent solution of this product when using high-volume spray-to-wet applications. Apply a 5 to 10 percent solution of this product when using low volume directed sprays for spot treatment. This product may be mixed with the following products for enhanced control of woody brush and trees:

ARSENAL GARLON 4
ESCORT TORDONTM K
GARLON 3A

Bermudagrass release

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 1 to 3 pints of this product in up to 80 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

Bahiagrass Bluestern, silver Fescue, Iall

Johnsongrass Trumpetcreeper Vaseygrass

This product may be tank-mixed with Ousl. If tank-mixed use no more than 1 to 3 pints of this product with 1 to 2 ounces of Oust per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

Bahiagrass Blackberry Bluestem, silver Broomsedge Dallisgrass Dewberry Dock, curly

Dogfennel

Fescue, tall Johnsongrass Poorjoe Raspberry Trumpetcreeper Vaseygrass Vervain, blue

Use only on well-established bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Repeat applications in the same season are not recommended, since severe injury may

8.8 Roadsides

All of the instructions in the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section apply to roadsides.

Shoulder treatments

This product may be used on road shoulders. If may be applied with boom sprayers, shielded boom sprayers, highvolume off-center nozzles, hand-held equipment, and similar

Guardrails and other obstacles to mowing

This product may be used to control weeds growing under guardrails and around signposts and other objects along the

Spot treatment

This product may be used as a spot treatment to control unwanted vegetation growing along roadsides.

Tank mixtures

This product may be tank-mixed with the following products for shoulder, guardrail, spot and bare ground treatments:

BANVEL DIURON **ENDURANCE ESCORT** KROVAR I DE

PRINCEP LIQUID RONSTAR 50WP SAHARA SIMAZINE SURFLAN

OUST PENDULUM 3.3 EC PENDULUM WOG

PRINCEP OF

TELAR 2.4-D

See the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section of this label for general instructions for tank

Release of Bermudagrass or Bahiagrass

Dormant applications

This product may be used to control or partially control many winter annual weeds and tall tescue for effective release of dormant bermudagrass or bahlagrass. Treat only when turf is dormant and prior to spring greenup. This product may also be tank-mixed with Oust for residual control. Tank mixtures of this product with Oust may delay greenup.

For best results on winter annuals, treat when plants are in an early growth stage (below 6 inches in height) after most have germinated. For best results on tall fescue, treat when fescue is at or beyond the 4- to 6-leaf stage.

Apply 8 to 64 fluid ounces of this product per acre alone or in a tank mixture with 1/4 to 1 ounce per acre of Oust. Apply the recommended rates in 10 to 40 gallons of water per acre. Use only in areas where bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. To avoid delays in greenup and minimize injury, add no more than 1 ounce of Oust per acre on bermudagrass and no more than 0.5 ounce of Oust per acre on bahiagrass and avoid treatments when these grasses are in a semi-dormant condition.

Actively growing bermudagrass

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 1 to 3 pints of this product in 10 to 40 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

Bahiagrass Bluestem, silver Fescue, Iall Johnsongrass Trumpetcreeper Vaseygrass

This product may be tank-mixed with Oust. If tank-mixed, use no more than 1 to 2 pints of this product with 1 to 2 ounces of Oust per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

Bahiagrass Bluestern, silver Broomsedge Dallisgrass Fescue, tall Johnsongrass Poorjoe Trumpetcreeper

Dock, curty Doglennel Vaseygrass Vervain, blue

Use only on well-established bermudagrass. Bermudagrass injury may result from the Ireatment, but regrowth will occur under moist conditions. Repeat applications of the tank mix in the same season are not recommended, since severe injury may occur.

Actively growing bahiagrass

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 6 fluid ounces of this product in 10 to 40 gallons of water per acre. Apply 1 to 2 weeks after full greenup or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 4 fluid ounces of this product per acre, followed by an application of 2 to 4 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

A tank mixture of this product plus Oust may be used. Apply 6 fluid ounces of this product plus 0.25 ounce of Oust per acre 1 to 2 weeks following an initial spring mowing. Make only one application per year.

9.0 WEEDS CONTROLLED

Always use the higher rate of this product per acre within the recommended range when weed growth is heavy or dense or weeds are growing in an undisturbed (noncultivated) area.

Reduced results may occur when treating weeds heavily covered with dust. For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.

Refer to the following label sections for recommended rates for the control of annual and perennial weeds and woody brush and trees. For difficult to control perennial weeds and woody

WEEDS CONTROLLED



WEEDS CONTROLLED

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brush and trees, where plants are growing under stressed conditions, or where infestations are dense, this product may be used at 5 to 10 quarts per acre for enhanced results.

9.1 Annual Weeds

Use 1 quart per acre if weeds are less than 6 inches in height or runner length and 1.5 quarts to 4 quarts per acre if weeds are over 6 inches in height or runner length or when weeds are growing under stressed conditions.

For spray-to-wet applications, apply a 0.5 percent solution of this product to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. For annual weeds over 6 inches tall, or for smaller weeds growing under stressed conditions, use a 1 to 2 percent solution. Use the higher rate for tough-to-control species or for weeds over 24 inches tall.

WEED SPECIES

Annoda, spurred
Barley
Barnyardgrass
Bittercress
Black nightshade
Bluegrass, annual
Bluegrass, bulbous
Bassia, fivehook
Brome, downy
Brome, Japanese
Browntop panicum
Buttercup
Carolina foxtail
Carolina geranium
Castor bean

Cheesevreed (Malva parvillora)

Kochia Lamb's-quarters* Little barley London rocket Mayweed Medusahead: Morningglory (Ipomoea spp.) Mustard, blue Mustard, tansy Mustard, tumble* Mustard, wild: Oats Pigweed* Plains/Tickseed coreopsis* Prickly lettuce: Puncturevine Purslane, common

Chickweed Cocklebur

Cheatgrass

Chervil'

Copperleaf, hophornbeam

Corn si Corn :

Corn speedwell* Crabgrass* Dwaridandelion* Eastern mannagrass* Eclipta*

Fall panicum* Falsedandelion*

Falsetlax, smallseed ' Fiddleneck Field pennycress'

Filaree Fleabane, annual Fleabane, hairy

(Conyza bonariensis)* Fleabane, rough* Florida pusley

Foxtail* Goatgrass, jointed* Goosegrass

Grain sorghum (milo)* Groundsel, common* Hemp sesbania

Henbit

Horseweed/Marestail (Conyza canadensis)

lichgrass
Johnsongrass, seedling

Junglerice Knotweed Ragweed, giant Red rice

Ragweed, common

Russian thistle

Rye* Ryegrass*

Sandbur, field Shattercane Shepherd's-purse

Sicklepod Signalgrass, broadleal* Smartweed, ladysthumb* Smartweed, Pennsylvania*

Smartweed, Pennsylvan Sowthistle, annual Spanishneedles Speedwell, purslane* Sprangletop*

Spurge, annual Spurge, prostrate* Spurge, spotted* Spurry, umbrella*

Spurry, umbrella* Starthistle, yellow Stinkgrass* Sunllower* Teaweed/Prickly sida

Texas panicum² Velvetleat Virginia copperteat

Virginia pepperweed* Wheat*

Wild oats'
Witchgrass'
Woolly cupgrass'
Yellow rocket

*When using field broadcast equipment (aerial applications or boom sprayers using flat fan nozzles) these species will be controlled or partially controlled using 1 pint of this product per acre. Applications must be made using 3 to 10

WEEDS CONTROLLED

gallons of carrier volume per acre. Use nozzles that ensure thorough coverage of foliage and treat when weeds are in an early growth stage.

9.2 Perennial Weeds

Best results are obtained when perennial weeds are treated after they reach the reproductive stage of growth (seedhead initiation in grasses and bud formation in broadleaves). For non-flowering plants, best results are obtained when the plants reach a mature stage of growth. In many situations, treatments are required prior to these growth stages. Under these conditions, use the higher application rate within the recommended range.

Ensure thorough coverage when using spray-to-wet treatments using hand-held equipment. When using hand-held equipment for low volume directed spot treatments, apply a 5 to 10 percent solution of this product.

Allow 7 or more days after application before tillage.

Weed Species	Rate (QT/A)	Hand-Held % Solution
Alfalfa*	1	2
Alligatorweed 1	4	1.5
Anise (fennel)	2-4	1-2
Baniagrass	3-5	2
Beachgrass, European (Ammophila arenaria)	_	5
Bentgrass*	1.5	2
Berrnudagrass	5	2
Bermudagrass, water		
(knotgrass)	1.5	2
Bindweed, field	4-5	2
Bluegrass, Kentucky	2	2
Blueweed, Texas	4-5	2
Brackenfern	3-4	1-1.5

Bromegrass, smooth	2	2
Bursage, woolly-leaf	_	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Canarygrass, reed	2-3	2
Cattail	3-5	2
Claver, red, white	3-5	5
Cogongrass	3-5	. 2
Dallisgrass	3-5	. 5
Dandelion	3.5	2
Dock, curty	3-5	2
Dogbane, hemp	4	2
Fescue (except tall)	3-5	2
Fescue, falf	-1-3	2
German ivy	2-4	1-2
Guineagrass "	3	1
Horsenettle	3-5	
Horseradish	4	2 2
Iceplant	2	1.5-2
Jarusalam artichoka	3-5	
Johnsongrass	2-3	2 1 2 2
Kikuyugrass	2-3	2
Knapweed	4	2
Lantana	_	1-1.25
Lespedeza	3-5	
Milkweed, common	3	2
Muhly, wirestem	5	2
Mullein, common	2 3·5	2 2 2 2 2 2 1-2
Napiergrass	3-5	2
Nightshade, silverleaf	2 3	2
Nutsedge; purple, yellow	3	1-2
Orchardgrass	2	2
Pampasgrass	2 3-5	2 1.5-2
Paragrass	3-5	2
Pepperiveed, perennial	4	2 2
Phragmites -	3-5	1-2
Paison hemlock	2-4	1-2
Quackgrass	2-3	. 5
Redvine*	2	2

WEEDS CONTROLLED



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Weed Species	Rate (OT/A)	Hand-Held % Solution			
Reed, giant	4-5	2			
Ryegrass, perennial	2-3	1			
Smartweed, swamp	3-5	2			
Spurge, leafy	_	ž			
Sweet potato, wild:	_	2			
Thistle, artichoke	2-3	1-2			
Thistle, Canada	2-3	2			
Timothy	2.3	2			
Torpedograss*	4-5	2			
Trumpetcreeper*	2-3	2			
Vaseygrass	3-5	2 .			
Velvetgrass	3-5	2			
Wheatgrass, western	2-3	2			

Partial control

9.3 Woody Brush and Trees

Apply this product after full leaf expansion, unless otherwise directed. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation.

In arid areas, best results are obtained when applications are made in the spring to early summer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using spray-to-wet treatments using hand-held equipment. When using hand-held equipment for low volume directed-spray spot treatments, apply a 5 to 10 percent solution of this product.

Symptoms may not appear prior to frost or senescence with fall treatments,

Allow 7 or more days after application before tillage, moving or removal. Repeat treatments may be necessary to control plants

regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major teaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

Alder Ash' 2-5 1-2 Aspen quaking 2-3 1-1.5 Bearclover (Bearmat) 2-5 1-2 Beech 2-5 1-2 Birch 2-5 1-2 Cascaken 2-5 1-2 Broom: French. Scotch 2-5 1-2 Cascara 2-5 Cascara 2	Weed Species	Broadcas Rate (OT/A)	t Hand-Held Spray-to-Wet % Solution
Aspen quaking 2-5 1-2 Aspen quaking 2-3 1-1.5 Bearclover (Bearmat) 2-5 1-2 Beech 2-5 1-2 Birch 2-5 1-2 Birch 2-5 1-2 Blackgury 3-4 1-1.5 Blackgum 2-5 1-2 Bracken 2-5 1-2 Broom: French. Scotch 2-5 1-2 Broom: French. Scotch 2-5 1-2 Cascara 3-1-1.5 Coyote brush 3-4 1.5-2 Deerweed 2-5 1 Dogwood 2-5 1-2 Elderberry 3-7 Elde		3-4	1-1 5
Aspen, quaking Bearclover (Bearmat)* Beech* Blackgum Blackgum Blackgum Broom: French. Scotch Broom: French. Scotch Broom: French. Scotch Buckwheat. California* Cascara* Cascara* Cascara* Cascara* Ceanothus* Ceanothus* Ceanothus* Chamise* Chami		2-5	
Bearclover (Bearmat)	Aspen, quaking		_
Beech	Bearclover (Bearmat)		
Birch 2 1 Blackberry 3-4 1-1.5 Blackgum 2-5 1-2 Bracken 2-5 1-2 Broom: French. Scotch 2-5 1.5-2 Buckwheat, California 2-4 1-2 Cascara 2-5 1-2 Catsclaw — 1-1.5 Ceanothus 2-5 1-2 Chamise 2-5 1-2 Chamise 2-5 1-2 Chamise 3-4 1.5-2 Deerweed 2-5 1 Dogwood 2-5 1-2 Elderberry 2 1 Elm 2-5 1-2 Elucalyptus — 2-5 1-2 Eucalyptus — 2-5 1-2 Elucalyptus — 2-5 1-2 Buckwheat, California 2-3 1-1.5 Elucalyptus — 2-5 1-2 Buckwheat, California 2-3 1-1.5 Elucalyptus — 2-5 1-2 Buckwheat, California 2-3 1-1.5 Buckwheat, California 2-5 1-2 Buckwheat, Califor		2-5	-
Blackberry 3-4 1-1.5 Blackgum 2-5 1-2 Bracken 2-5 1-2 Broom: French. Scotch 2-5 1.5-2 Buckwheat, California 2-4 1-2 Cascara 2-5 1-2 Catsclaw			_
Blackgum 2-5 1-2 Bracken 2-5 1-2 Broom: French. Scotch 2-5 1-5-2 Buckwheat. California 2-4 1-2 Cascara 2-5 1-2 Catsclaw 1-1.5 Ceanothus 2-5 1-2 Chamise 2-5 1 Cherry; bitter, black, pin 2-3 Cherry; bitter, black, pin 2-3 Coyote brush 3-4 1.5-2 Degrweed 2-5 1 Degrweed 2-5 1-2 Elderberry 2 1 Elm 2-5 1-2 Elderberry 2 1 Elm 2-5 1-2 Eucalyptus 2-5 Gorse 1-2 Hawthorn 2-3 1-1.5 Hazel 2 Hickory 2-5 1-2 Honeysuckle 3-4 1-1.5 Harman	Blackberry		•
Bracken 2-5 1-2 Broom: French. Scotch 2-5 1.5-2 Buckwheat, California 2-4 1-2 Cascara 2-5 1-2 Catsclaw — 1-1.5 Ceanothus 2-5 1-2 Chamise 2-5 1 Cherry; bitter, black, pin 2-3 1-1.5 Coyote brush 3-4 1.5-2 Deerweed 2-5 1 Degrweed 2-5 1-2 Elderberry 2 1 Elm* 2-5 1-2 Eucalyptus — 2 Gorse* 2-5 1-2 Hasardia* 2-4 1-2 Hawthorn 2-3 1-1.5 Hackel 2 1 Hickory* 2-5 1-2 Hangysuckle 3-4 1-1.5		2-5	
Solition French Scotch 2-5 1.5-2 Buckwheat California 2-4 1-2 Cascara 2-5 1-2 Catsclaw			
Suckenear, California	Broom, French, Scotch	2-5	
Cascara	Buckwheat, California	2-4	
Carsciaw — 1-1.5 Ceanothus 2-5 1-2 Chamise 2-5 1 Cherry; bitter, black, pin 2-3 1-1.5 Coyote brush 3-4 1.5-2 Deerweed 2-5 1 Oogwood 2-5 1-2 Elderberry 2 1 Elm 2-5 1-2 Eucalyptus — 2 Gorse 4 1-2 Hawthorn 2-3 1-1.5 Hazel 1 Hickory 2-5 1-2 Honeysuckle 3-4 1-1.5		2-5	
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Cherry; Bitter, black, pin 2-3 1-1.5 Coyote brush 3-4 1.5-2 Deerweed 2-5 1 Oogwood* 2-5 1-2 Elderberry 2 1 Elm* 2-5 1-2 Eucalyptus — 2 Gorse* 2-5 1-2 Hasardia* 2-4 1-2 Hawthorn 2-3 1-1.5 Hazel 1 Hickory* 2-5 1-2 Haneysuckle 3-4 1-1.5		2-5	1
Degreed 2-5 1 2 2-5 1 2 2-5 1 2 2-5 1 2 2-5 1 2 2-5 1 2 2-5 1 2 2-5 1 2 2 2-5 1 2 2 2 2 2 2 2 2 2	Cherry, bitter, black, pin	2-3	1-1.5
Dogwood* 2-5 1-2 Elderberry 2 1 Elm* 2-5 1-2 Eucalyptus — 2 Gorse* 2-5 1-2 Hasardia* 2-4 1-2 Hawthorn 2-3 1-1.5 Hazel 2 1 Hickory* 2-5 1-2 Honeysuckle 3-4 1-1.5	Coyote brush	3-4	1.5-2
Dogwood		2-5	1
Elm* 2-5 1-2 Eucalyptus — 2 Gorse* 2-5 1-2 Hasardia* 2-4 1-2 Hawthorn 2-3 1-1.5 Hazel 2 1 Hickory 2-5 1-2 Hangysuckle 3-4 1-1.5	nodwood,	2-5	1-2
Eucalyptus 2-5 1-2 Gorse 2-5 1-2 Hasardia 2-4 1-2 Hawthorn 2-3 1-1.5 Hazel 2 1 Hickory 2-5 1-2 Honeysuckle 3-4 1-1.5	Elderberry	2	1
Gorse ' 2-5 1-2 Hasardia ' 2-4 1-2 Hawthorn 2-3 1-1.5 Hazel 2 1 Hickory 2-5 1-2 Honeysuckle 3-4 1-1.5		2-5	1-2
Hasardia 2-4 1-2 Hawthorn 2-3 1-1.5 Hazel 2 1 Hickory 2-5 1-2 Honeysuckle 3-4 1-1.5	Encalyptus	_	2
Hawthorn 2-3 1-1.5 Hazel 2 1 Hickory 2-5 1-2 Honeysuckle 3-4 1-1.5		2-5	1-2
Hazel 2 1 Hickory 2-5 1-2 Honeysuckle 3-4 1-1.5			1-2
Hickory* 2-5 1-2 Haneysuckle 3-4 1-1,5	nawingm Kasal		1-1.5
doneysuckle 3-4 1-1.5			1
10	da account to		1-2
tornbeam, American 2-5 1-2	toribase A :		1-1 .5
	Torribeam, American	2-5	1-2

WEEDS CONTROLLED

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WEEDS CONTROLLE		₹£4 6 °
Weed Species	Broadcast Rate (01/A)	Hand-Held Spray-to-Wel % Solution
Kudzu	4	2
Locust, black*	2-4	1-2
Madrone resprouts*	_	2
Manzanita*	2-5	1-2
Maple, red	2-4	1-1.5
Maple, sugar		1-1.5
Monkey flower*	2-4	1-2
Oak: black, white*	2-4	1-2
Oak, post	3-4	1-1.5
Oak; northern, pin	2-4	1-1.5
Dak, Scrub*	2-4	1+1.5
Oak; southern red	2-3	1-1.5
Peppertree Brazilian	2-5	1-2 .
(Florida holly)*	•	
Persimmon*	2-5	1-2
Pine	2-5	1-2
Poison ivy	4-5	2
Poison oak	4-5	2
Poplar, yellow*	2-5	1-2
Redbud, eastern	2-5	1-2
Rose, multiflora	2	1
Russian olive*	2-5	1-2
Sage, black	2-4	1
Sage, white*	2-4	1-2
Sage brush, California	2-4	1
Salmonberry	2	1
Salicedar	2-5	1-2
Sassafras*	2-5	1-2
Sourwood*	2-5	1.2
Sumac; laurel, poison, smooth, sugarbush, winged	2-4	1-2
Sweetgum	2-3	1-1.5
Swordfern*	2-5	1-2 .
Tallovitree, Chinese Tan oak resprouts		1 2
Thimbleberry	2	ī
Tobacco, tree*	2-4	1-2
Toyon*	_	2
Trumpetcreeper	2-3	1-1.5
Vine maple	2-5	1-2
Virginia creeper	2-5	1-2
Waxmyrtle, southern*	2-5	1-2
Willow	3	1
Yerbasenta*		2

^{*}Partial control

10.0 LIMIT OF WARRANTY AND LIABILITY

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LIMIT OF WARRANTY 43

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Registro en la EPA Nº 524-475

En caso de que se presente una emergencia relacionada con este producto, llame por cobrar a cualquier hora del día o de la noche, al telátono (314)-694-4000.

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EPA Reg. No. 524-475

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El herbicida profesional completo de postemergencia y de amplia efectividad, para el control de malezas en zonas industriales, céspedes y ornamentales.

Instrucciones completas para el uso

Registro en la EPA Nº 524-475

EVITE EL CONTACTO DEL HERBICIDA CON EL FOLLAJE, TALLOS VERDES, RAICES NO LEÑOSAS EXPUESTAS O FRUTOS EXPUESTOS DE LAS COSECHAS, PLANTAS Y ARBOLES DESEABLES. EN CASO CONTRARIO ES PROBABLE QUE SUFRAN GRAVES DAÑOS O SEAN DESTRUIDOS TOTALMENTE.

Roundup Pro es una marca registrada y Monsanto y el logo son marcas de la Compañía Monsanto.

CONTENIDO

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Antes de usar este producto, lea la etiqueta en su totalidad. Uselo solamente de acuerdo con las instrucciones de la etiqueta.

El uso de este producto de cualquier manera contraria a las indicaciones contenidas en este libreto se considera una violación de las leyes federales.

No todos los productos recomendados en esta etiqueta han sido registrados para su uso en California. Verifique el estado de registro de cada producto en California antes de utilizarlo.

Antes de comprar o usar el producto, lea "LIMITES EN LA GARANTIA Y EN LA RESPONSABILIDAD" en la última sección de la etiqueta. Si las condiciones son inaceptables para usted, devuelva el producto inmediatamente sin abrir el recipiente.

ESTE ES UN PRODUCTO PARA USARSE TAL Y COMO ESTA PREPARADO. MONSANTO NO LO HA DISEÑADO NI LO HA REGISTRADO PARA QUE SEA REFORMULADO. VEA LA ETI-QUETA DEL ENVASE INDIVIDUAL PARA ENTERARSE DE LAS LIMITACIONES DE REEMPAQUE.

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*Contiene 480 gramos por litro o 4 libras por gatón americano del ingrediente activo glifosato, en forma de su sal de isopropilamina. Equivalente a 356 gramos por fitro o 3 tibras por gatón americano del ácico, glifosato.

Glifosato, N-(fosfonometil) glicina, en forma de su sal de isopropilamina.....

(incluyendo surfactante):.....

INGREDIENTES

INGREDIENTE ACTIVO:

INGREDIENTES OTRAS

.. 41,0%

TELEFONOS IMPORTANTES

Ľ

Este producto está protegido por la patente de los Estados Unidos Nº 4.405.531 y por la patente de los Estados Unidos Nº 5.703.015. Otras patentes están pendientes. No se han otorgado licencias bajo ninguna patente que no sea de los Estados Unidos.

2.0 TELEFONOS IMPORTANTES

 PARA INFORMACION SOBRE EL PRODUCTO O AYUDA PARA UTILIZAR ESTE PRODUCTO, LLAME GRATIS AL

1-800-332-3111.

2. EN CASO DE QUE SE PRESENTE UNA EMERGENCIA RELACIONADA CON ESTE PRODUCTO. O PARA OBTENER AYUDA MEDICA, LLAME POR COBRAR A CUALQUIER HORA DEL DIA O DE LA NOCHE, AL TELE-FONO

(314)-694-4000.

3.0 ADVERTENCIAS

3.1 Riesgos para seres humanos y animales domésticos

Manténgase fuera del alcance de los niños.

iCUIDADO!

IRRITA LOS OJOS.

Evite el contacto con los ajos y con la rapa.

PRIMEROS AUXILIOS: SI ENTRA EN LOS OJOS, lave los ojos con abundante agua. Obtenga atención médica si la irritación continúa.

ANIMALES DOMESTICOS: Este producto se considera relativamente no tóxico para los perros y otros animales domésticos; sin embargo, la ingestión de este producto o de grandes cantidades de vegetación recientemente tratada ouede resultar en una irritación gastrointestinal temporal (vómito, diarrea, cólico, etc.). Si se observan dichos síntomas, de al animal suficiente cantidad de líquidos para evitar la deshidratación. Si los síntomas continúan por más de 24 horas, llame al veterinario.

Equipo de protección personal

Las personas que aplican o manejan este producto deben usar camisas de manga larga, asi como pantalones largos, zapatos y medias. Siga las instrucciones del fabricante para timpiar y mantener el Equipo de Protección Personal (PPE). En caso de no tener dichas instrucciones para piezas lavables, use detergente y agua muy caliente. Mantenga y lave el equipo de protección personal separado de las demás piezas a lavarse.

En los casos en los cuales el personal encargado de manejar el producto lo hace en ambientes cerrados, cabinas cerradas o aviones, de manera tal que se cumplan los requisitos listados en "Worker Protection Standard (WPS) for agriculteral pesticides" (Normas para la Protección de los Trabajadores que trabajan con pesticidas usados en la agricultura) (40 CFR 170.240 (d) (4-5)], los requisitos para el equipo de protección personal del trabajador pueden ser reducidos o modificados de acuerdo a lo que se específica en las normas WPS.

Recomendaciones de seguridad para el usuarlo: El usuarlo debe:

- Lavarse las manos antes de comer, beber mascar goma, usar tabaco o de usar el servicio higiénico.
- Quitarse la ropa inmédiatamente en caso de que el pesticida entre dentro de ésta. Luego debe lavarse muy bien yponerse ropa limpia.

3.2 Riesgos al medio ambiente

No aplique directamente al agua, en áreas donde el agua superficial esté presente o en áreas donde haya mareas altas y bajas por debajo del nivel medio de mareas altas. No contamine el agua cuando deseche el agua' con la cual lavó el equipo.

3.3 Riesgos de orden físico o químico

Para mezclar, almacenar y aplicar la solución de este producto, se deben usar solamente recipientes de acero inoxidable, aluminio, fibra de vidrio, plástico o recipientes de acero recubiertos internamente con plástico.

NO MEZCLE. ALMACENE O APLIQUE ESTE PRODUCTO O SUS SOLUCIONES PARA ROCIAR EN RECIPIENTES O TAN-OUES ROCIADORES DE ACERO GALVANIZADO O DE ACERO NO RECUBIERTO (EXCEPTO SI ES ACERO INOXIDABLE). Este producto o la solución para rociar reaccionan con el material de dichos recipientes y tanques, lo cual produce hidrógeno, que puede formar una mezcla de gases altamente combustibles. Si esta mezcla de gases entra en contacto con llamas, chispas, el sopiete de un soldador, un cigarrillo encendido o cualquier otra fuente de encendido, puede inflamarse o explotar y causar heridas graves a personas.

INSTRUCCIONES PARA EL USO

El uso de este producto de cualquier manera que sea inconsistente con las instrucciones dadas en la etiqueta es una violación de las leyes federales. No aplique este producto de alguna manera que entre en contacto con los trabajadores u otras personas, ya sea directamente o por medio de alguna corriente de aire. Solamente las personas que los manipulen

y que usen equipo protector podrán estar en el área durante su aplicación. Para verificar requisitos especificos de su tribu o estado, consulte con la agencia responsable de la regulación del uso de pesticidas.

Requisitos para el uso en la agricultura

Use este producto siguiendo estrictamente las instrucciones de la etiqueta y de acuerdo con "Worker Protection Standard", 40 CFR sección 170. Estas normas contienen los requisitos para proteger a los trabajadores agrícolas en haciendas, bosques, viveros e invernaderos, así como a aquellos trabajadores que manejan pesticidas usados en la agricultura. Las normas contienen los requisitos para entrenar, descontaminar, para dar aviso y para asistencia de emergencia. También contienen instrucciones específicas y excepciones que tienen que ver con el contenido de esta etiqueta en lo relacionado con el Equipo para la Protección Personal (PPE) e intervatos de entrada restringida. Los requisitos mencionados en esta sección se aplican unicamente a los usos de este producto que están regulados por las Normas para la Protección de los Trabajadores (WPS).

No entre ni permita la entrada de personal al área tratada durante el intervalo de entrada restringida (REI) de 4 horas.

Para entrar antes de que haya terminado el intervalo de entrada restringida, a las áreas que hayan sido tratadas y cuando ello implique contacto con cualquier cosa que haya sido tratada como plantas, tierra o agua se debe usar coverats prantes impermeables, zapatos y calcetines. ?"

Requisitos para usos no agricolas
Los requisitos en esta sección son para los usos de este
producto que NO están cubiertos por WPS (40 CFR
Sección 170) para el uso de pesticidas en la agricultura.
Las regulaciones del WPS se aplican cuando el producto se
lusa para obtener productos agricolas en haciendas;
bosques viveros e invernaderos.

ADVERTENCIAS

ALMACENAMIENTO Y DESECHO

Mantenga a las personas y a los animales domésticos fuera del área tratada hasta que la solución rociada se haya secado completamente para evitar que este producto sea transferido a la vegetación deseable.

4.0 ALMACENAMIENTO Y DESECHO

Cuando almacene o deseche el producto no contamine el agua, los productos alimenticios, el alimento para animales o las semillas.

ELIMINACIÓN: TODOS LOS RECIPIENTES: Los desechos que resulten del uso de este producto que no puedan utilizarse o reprocesarse quimicamente deben eliminarse en un vertedero de basura aprobado para la eliminación de pesticidas o de acuerdo con los procedimientos locales, estatales y tederales aplicables.

El recipiente vaciado retiene vapores y residuos del producto. Observe todas las precauciones de la etiqueta hasta que el recipiente esté limpio, reacondicionado, o destruido.

PARA RECIPIENTES PORTÁTILES RELLENABLES:

No reutilice este recipiente nada más que para rellenar de acuerdo con un Reempaque válido de Monsanto o una Tarifa de Acuerdo de Reempaque. Si no se rellena o se devuelve a la instalación reempaquetadora autorizada, enjuague el recipiente tres veces, luego perfórelo y deséchelo en un vertedero de basura sanitario, o por incineración, ó, si lo permiten las autoridades estatales y locales, quemándolo. Si se quema, permanezca lejos del humo.

PARA RECIPIENTES METÁLICOS (no en aerosol):

Enjuague tres veces (o su equivalente). Luego ofrézcato para reciclarlo o reacondicionarlo, o perfórelo y deséchelo en un vertedero de basura sanitario, o por otros procedimientos aprobados por autoridades estatales locales.

PARA RECIPIENTES DE GRANEL:

Enjuague tres veces el recipiente de granel vacío. Luego ofrézcalo para reciclarlo o reacondicionarlo, o desécheto de una manera aprobada por autoridades estatales locales.

PARA RECIPIENTES Y BOTELLAS PLÁSTICAS DE UNA VÍA: No reutifice el recipiente. Enjuague tres veces el recipiente, luego perfórelo y deséchelo en un vertedero de basura sánitario o por incineración, ó, si lo permiten las autoridades estatales y locales, quemándolos. Si se queman, permanezca lejos del humo.

PARA TAMBORES:

No reutilice el recipiente. Devuelva el recipiente según el programa de devolución de recipientes de Monsanto. Si no se devuelve, enjuague el recipiente tres veces, luego perfórelo y deséchelo en un vertedero de basura sanitario, o por incineración, ó, si lo permiten las autoridades estatales y locales, quemandolos. Si se queman, permanezca lejos del humo.

5.0 INFORMACION GENERAL

Descripción del producto: Este producto es un herbicida sistémico sin actividad residual sobre el suelo. Controla con amplia efectividad muchas malezas anuales, malezas perennes, matorrales leñosos y árboles. Es un liquido soluble en agua y contiene surfactante por lo que no es necesario ni recomendable usar surfactante adicional.

Consecuencias para los alrededores: Cuando este producto entra en contacto con el suelo, se adhiere a las partículas del suelo. Cuando es usado de acuerdo con las instrucciones de la etiqueta, una vez que este producto queda adherido al suelo no está disponible para su absorbción por parte de las plantas y no dañará la vegetación ubicada fuera del lugar del tratamiento cuyas raices crezcan en dicha área o si el suelo es transportado a otro lugar. La gran afinidad de este producto con las partículas del suelo evitan la fixiviación de este producto fuera del perfil del suelo y su entrada en las aguas

INFORMACION GENERAL

INFORMACION GENERAL

subterráneas. La alinidad entre este producto y las particulas del suelo permanecen hasta que este producto se degrada, el cual es principalmente un proceso de degradación biológica que es llevado a cabo por la microllora del suelo bajo condiciones aeróbicas y anaeróbicas.

Aparición de los sintomas: Este producto se mueve dentro de la planta desde el punto de aplicación sobre el foltaje, hasta las raíces. Los efectos visibles en la mayor parte de las matezas anuales se pueden apreciar entre los 2 ó 4 días después de la aplicación, pero en la mayoría de las matezas perennes, los efectos no se van hasta después de 7 días o más. El frío extremo o el cielo muy nublado después de la aplicación pueden retardar la actividad del producto y hacer que el efecto visual se retarde, Los efectos visibles incluyen que la planta se marchite y se vuelva amarilla en forma gradual, hasta que la pante exterior de ésta se torne completamente color café; mientras tanto, las partes de la planta que están bajo tierra se deterioran completamente.

Modo da acción en las plantas: El ingrediente activo de este producto inhibe una enzima hallada sólo en las plantas que es esencial para la formación de aminoácidos específicos.

Prácticas culturales: Se podrá observar una reducción en el efecto si se aplica el producto a malezas anuales o perennes que hayan sido segadas, que hayan servido de alimento para animales o hayan sido cortadas, y que no hubiesen crecido nuevamente hasta el nivel recomendado para el tratamiento.

Resistencia a la Ítuvia: La Iluvia torrencial poco después de la aplicación lavará el producto del follaje y se requerirá una nueva aplicación para obtener un control adecuado.

Sin actividad sobre el suelo: Las malezas deben haber emergido en el momento de la aplicación para poder ser controladas por este producto. Las malezas que germinen de semillas después de la aplicación no serán controladas. Las plantas no emergidas con rizomas o raíces subterráneas de malezas perennes no conectadas no se verán afectadas por el herbicida.

Volatilidad: Roundup Pro herbicida no es volátil. Por to tanto, no puede dispersarse en forma de vapor después de su aplicación y, por ende, no afecta la vegetación de las cercanias.

Toxicología: En general, no se prevee que la exposición a los trabajadores y otros aplicadores presente mayores riesgos en base a los resultados de los estudios sobre toxicidad a corto plazo. Se ha estudiado-a fondo el glifosato y se ha determinado que no produce cancer ni tiene otros efectos adversos a largo plazo para la salud.

Mezclas de tanque: Este producto no proporciona control residual de malezas. Para lograr un control residual subsecuente, utilice un herbicida que esté aprobado en la etiqueta.

Lea y siga cuidadosamente todas las precauciones indicadas y toda la información que aparezca en las etiquetas de fos herbicidas que use. Uselos según las instrucciones más restrictivas de la etiqueta de cada producto usado en la mezcia.

El comprador y todos los usuarios son responsables por todas las pérdidas o daños que resulten del uso o manejo de las mezclas de este producto con herbicidas u otros materiales que no estén expresamente recomendados en este libreto. La mezcla de este producto con herbicidas u otros materiales que no estén recomendados en este libreto puede reducir la eficacia de este producto.

Cantidad máxima de uso anual: El total combinado de todos los tratamientos no debe superar los 10.6 cuartos de galón de este producto por acre y por año.

ATENCION

EVITE EL CONTACTO DEL HERBICIDA CON EL FOLLAJE. TALLOS VERDES, RAICES NO LEÑOSAS EXPUESTAS O FRUTOS EXPUESTOS DE LAS COSECHAS, PLANTAS Y ARBOLES DESEABLES. EN CASO CONTRARIO ES PROBABLE QUE SUFRAN GRAVES DAÑOS O SEAN DESTRUIDOS TOTAL MENTE

INFORMATION GENERAL

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EVITE EL ACARRED CUANDO EL PRODUCTO SE THEORINACTON GENERAL

VENIR EL DAÑO A PLANTAS Y CULTIVOS DESEABLES. АРСІФИЕ, SE 088E ТЕМЕЯ МИСНО CUIDADO PARA PRE-

EVITE LA APLICACION A ALTA VELOCIDAD O PRESION muchas probabilidades de que el producio sea acarreado. nanair aup (aldain) zenit zelubitat o zerubspiete obst bissionss y lipos de boquills que puedan dar como resulcando el producto con un rociador, evite la combinación de favorecen la dispersión del rocisdo. Cuando se esté aplicuando existen otras condiciones meteorológicas que cuando la velocidad dat viento cambia constantemente o de viento, a medida que aumenta la vetocidad del viento. uso de este producto aumenta cuando hay muchas rátagas se desea tratar. La probabilidad de que ocurran daños por el graves o destruit las cosechas, piantas u otras áreas que no contidad pequeña puede ser suficiente para causar daños sea acatteada o salpique sobre la vegetación deseable. Una No permits que la solución del herbicida se nebulice, goree.

titt ottas consecuencias no deseadas. Mantenga los tecien lesiones a personas, animales o cosechas o pueden ocua las indicaciones contenidas en este libreto, puede resultar NOTA: El uso de este producto de custovier manera confraria

pientes bien cettados para evitar detramamientos y

P.0 MEZCLA

zn nijijssción tavándolas bien con agua. Limple las piezas del rociador inmediatamente después de

CHARGAS O ACEOUIAS QUE NO ESTE CLARA. TIERRA, TAL COMO AGUA CON BARRO VISIBLE O AGUA DE RESULTADOS SI SE UTILIZA AGUA QUE CONTENGA NOTA: PUEDE OCURRIR UNA DISMINUCION DE LOS

P.1 Mezcla con agua

lebernot ey emuqea et renimita sieg o emuqea ab nécoemiot si es necesario, use compuestos aprobados para evitar la tuberias de derivación y de retorno en el fondo del tanque, y espuma, evite et uso de agitadores mecánicos, cierre las duzca espuma. Para evitar o minimizar la lormación de Es posible que durante la mezola y rociado, la solución procuando así lo exijan las regiamentaciones estatalales o locales. para evitar que el liquido regrese al recipiente original regrese at recipiente original. Use dispositivos aprobados agus y mezete bien. Tenga cuidado de que el liquido no producto cuando ya està cerca de completarse el llenado con preparar la mezcla. Agregue la cantidad necesaria de este cantidad corrects de agua en el lanque en el cual se va a para rociar se debe mezclar de la siguiente manera; ponga la Este producto se mezcia fácilmente con agua. La solución

mezclas de tanque 2 Procedimiento para

información contenida en las etiquetas de todos tos produclas instrucciones de la etiqueta, las precauciones y toda la Cuando haga mezcias de tanque, lea y siga cuidadosamente

la cantidad recomendada de este producto. instrucciones de la etiqueta. Agite continuamente y agregue tos utilizados. Agregue et producto al tanque segun tas

de continuer con el rocigdo. baine nòisnagauz na tataa a svlauv siosam al aup ataq naid lanque. Si se deja que la mezcla para rociar se asiente, agite Agile continuamente hasta usar totalmente el contenido del

tamaño det cernidor en la boquilla o de los cernidores en las tuberias de retorno lo más cerca del tondo del tanque. El ast sgnetnem .emuqee eb notacitat ist instiminim eb nit A

Tuberias no debe ser menor si número 50.

La compatibilidad o no del agua con la mezcla que viene en tanque, provisto de etiqueta, se debe comprobar siempre mezclando pequeñas cantidades proporcionales con antici-

Vea la sección "MEZCLAS DE TANQUE" de "INFORMACION GENERAL" para las precauciones adicionales.

.3 Mezcia para rociadores de mano o mochila de espaida.

Prepare la cantidad deseada de la solución para rociar, mezclando las proporciones de este producto con agua, según se muestra en la siguiente tabla:

Solución para rociar

Volumen		Cantidad de Roundup PRO				
deseado		1%	1½%	2%	`5% ´	10%
1 gal 25 gal 100 gal	% oz 1 pt 2 qt	1½ oz 1 qt 1 gal	2 oz 1½ qt 1½ gai		6½ oz 5 qt 5 gal	13 oz 10 qt 10 gai
	2	cuchara	das = 1 o	niza fluid	a	•

Cuando se usen rociadores tipo mochila, o para bombeo, se recomienda que este producto se mezcle con agua en un recipiente grande. Llene el rociador con la solución ya lista.

6.4 Colorantes o tinturas

A este producto se le pueden agregar colorantes o tinturas para marcar, que sean aprobados para uso agrícola. Los coforantes o tinturas que se agreguen a este producto, pueden reducir su eficacia, especialmente cuando la solución no es muy concentrada. Para usar los colorantes y tinturas siga las instrucciones del fabricante.

7.0 EQUIPOS Y TECNICAS PARA LA APLICACION

No use ningún sistema de irrigación para aplicar este pro-

APLIQUE ESTAS SOLUCIONES PARA ROCIAR UTILIZANDO EQUIPOS DEBIDAMENTE MANTENIDOS Y CALIBRADOS QUE SEAN CAPACES DE ROCIAR EL VOLUMEN DESEADO.

MANEJO DE LA DERIVA POR ROCIADO

EVITE LA DERIVA. DEBE USARSE EXTREMO CUIDADO EN LA APLICACIÓN DE ESTE PRODUCTO PARA EVITAR DAÑOS A PLANTAS Y CULTIVOS DESEADOS.

No permita que la solución del herbicida empañe, gotee, se derive o salpique sobre la vegetación deseada. ya que minusculas cantidades de este producto pueden causar daños graves o destrucción del cultivo, plantas u otras áreas que no se pretendia tratar.

Es la responsabilidad del aplicador evitar la deriva por rociado en el lugar de aplicación. La interacción de varios factores relacionados con el clima y el equipo determina la posibilidad de deriva por rociado. El aplicador y el cultivador son responsables de considerar todos estos factores al

MANEJO DE LA OERIVA POR ROCIADO AÉREO

Deben seguirse los siguientes requerimientos de manejo de la deriva para evitar el movimiento de esta fuera de objetivo en aplicaciones aéreas a campos de cultivo agrícola. Estos requerimientos no se emplean en aplicaciones forestales o para usos de salud pública.

- 1. La distancia del pulverizador más externo en la barra distribuidora no debe exceder II del largo de la envergadura o
- 2. Los pulverizadores deben siempre apuntar hacia atras, paralelos a la corriente de aire, nunca hacia abajo más de

EQUIPOS PARA LA APLICACION

EQUIPOS PARA LA APLICACION 16

45 grados. En los estados con reglamentos más estrictos, éstos deben observarse.

Importancia del tamaño de la potita

La lorma más eficaz de reducir la posibilidad de deriva es la aplicación de gotitas grandes. La mejor estrategia de manejo de la deriva es la aplicación de las gotitas más grandes que provean suficiente cobertura y control. La aplicación de gotitas más grandes reduce la posibilidad de deriva, pero no la evitará si las aplicaciones se realizan inadecuadamente o bajo condiciones ambientales desfavorables (vea las secciones de "Viento", "Temperatura y Humedad", e "Inversión de la Temperatura" en esta etiqueta).

Control del tamaño de la gotita

- Volumen: Use pulverizadores de velocidad de flujo alta para aplicar el mayor volumen de rociado práctico. Los pulverizadores con mayores velocidades de flujo producen gotitas más grandes.
- Presión: Use las presiones de rociado más bajas recomendadas para el pulverizador. La presión más alta reduce el tamaño de la gotita y no mejora la protección de toldo. Cuando sean necesarias velocidades de flujo mayores, use pulverizadores con velocidad de flujo mayor en lugar de aumentar la presión.
- Número de pulverizadores: Use el número mínimo de pulverizadores que provean cobertura uniforme.
- Orientación del pulverizador: Oriente los pulverizadores de modo que el rocio liberado hacia atrás, paralelo a la corriente de alre, produzca gotitas más grandes que en otras orientaciones. Una deflexión significativa de la horizontal reducirá el tamaño de la gotita y aumentará la posibilidad de deriva.
- Tipo de pulverizador: Use un tipo de pulverizador que esté diseñado para la aplicación prevista. Con la mayoria de los tipos de pulverizadores, los ángulos de rociado más angostos producen gotitas más grandes. Considere el uso

de pulverízadores de deriva baja. Los pulverizadores de flujo sólido orientados hacia atrás producen gotitas más grandes que otros tipos de pulverizador.

- Largo de la barra distribuidora: Para algunos tipos de uso, la reducción del largo efectivo de la barra distribuidora a menos de 3/4 de la envergadura o el largo del rotor puede reducir más la deriva sin reducir el ancho de la hilera (pasada).
- Altura de la aplicación: Las aplicaciones no deben realizarse a una altura mayor que 10 pies por encima de la copa de las plantas más grandes, a menos que se requiera mayor altura por razones de seguridad, del aeroplano. La realización de las aplicaciones a la menor altura que sea segura reduce la exposición de las goitas a la evaporación y el viento.

Ajuste de la hitera (pasada)

Cuando se realizan aplicaciones con viento cruzado, la pasada se desplazará hacía abajo. Por ello, en los extremos con o contra el viento del campo, el aplicador debe compensar por este desplazamiento ajustando la via del aeroplano contra el viento. La distancia de ajuste de la hilera debe aumentar, con aumento de la posibilidad de deriva (mayor viento, gotitas más pequeñas, etc.).

Viento

La posibilidad de deriva es menor con velocidades del viento entre 2 y 10 mph. Sin embargo, muchos factores, incluyendo el tamaño de las gotitas y el tipo de equipo determinan la posibilidad de deriva a una velocidad determinada. Debe evitarse la aplicación a menos de 2 mph debido a la dirección variable del viento y la posibilidad alta de inversión. NOTA: El terreno local puede influir en los patrones de viento. Cada aplicador debe conocer los patrones locales y cómo estos afectan la deriva.

Temperatura y humedad

Cuando se realizan aplicaciones con humedad relativa baja, lije el equipo para que produzca gotitas más grandes para

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compensar por la evaporación. La evaporación de golitas es más grave cuando las condiciones son calurosas y secas.

Inversiones de temperatura

No deben realizarse aplicaciones durante una inversión de temperatura debido a que es alta la posibilidad de deriva Las inversiones de temperatura restringen la mezcla de aire vertical, lo que causa que pequeñas gotitas suspendidas permanezcan en una nube concentrada. Esta nube puede moverse en direcciones no predecibles debido a los vientos variables leves que son comunes durante las inversiones. Las inversiones de temperatura están caracterizadas por lemperaturas en aumento con altitud y son comunes en las noches con cobertura de nubes limitada y poco o ningún viento. Comienzan a formarse cuando se pone el sol y a menudo continúan en la mañana. Su presencia puede indicarse por neblina en el suelo; sin embargo, si la neblina no está presente, las inversiones también pueden identificarse por el movimiento del humo desde una fuente del suelo o por el generador de humo de un aeroplano. El humo en capas que se mueve lateralmente en una nube concentrada (bajo condiciones de poco viento) indica una inversión, mientras que el humo que se mueve hacia arriba y se disipa rápidamente indica buena mezcla de aire vertical.

Areas sensibles

El pesticida sólo debe aplicarse cuando la posibilidad de deriva a áreas sensibles adyacentes (por ej., áreas residenciales, extensiones de agua, hábitat conocido para especies amenazadas o en peligro de extinción, cultivos que no son el objetivo) es mínima (por ej., cuando el viento sopta alejándose de las áreas sensibles).

7.1 Equipo aéreo

NO APLIQUE ESTE PRODUCTO CON EQUIPOS AEREOS EXCEPTO BAJO LAS CONDICIONES QUE SE ESPECIFICAN EN ESTE LIBRETO.

PARA LA APLICACION AEREA EN CALIFORNIA, CONSULTE EL SUPLEMENTO FEDERAL PARA APLICACIONES AEREAS EN DICHO ESTADO, PARA CONOCER LAS INSTRUCCIONES, LIMITACIONES Y REQUISITOS ESPECIFICOS. En California, no puede aplicarse es

EVITE EL ACARREO — NO APLIQUE EN CONDICIONES DE INVERSION DE LAS CAPAS DE AIRE FRIO Y CALIENTE A POCA ALTURA, CUANDO HAY VIENTOS INTENSOS O BAJO CUALQUIER OTRA CONDICION QUE FAVOREZCA EL ACARREO. ES PROBABLE QUE EL ACARREO CAUSE DAÑOS A LA VEGETACION PARA LA CUAL EL TRATAMIENTO NO ESTABA DIRIGIDO. PARA EVITAR DAÑAR LA VEGETACION ADYACENTE QUE NO SE DESEA DESTRUIR. SE ACONSEJA DEJAR ZONAS DE AMORTIGUACION ENTRE LA SUPERFICIE A TRATARSE Y LA QUE CONTIENE VEGETACION QUE SE QUIERE MANTENER.

Evite la aplicación directa sobre agua.

Use las proporciones recomendadas de este producto con 3 a 25 galones de agua por acre.

El rociado grueso tiene menos tendencia al acarreo a zonas que no se quieren tratar; por consiguiente, no use boquillas que rocian con gotas demasiado finas. No dirija las boquillas hacia adelante contra el viento y no aumente el volumen del rociado mediante el aumento de presión en las boquillas.

Se pueden usar aditivos para controlar el acarreo. Cuando se use este tipo de adilivos, lea y siga cuidadosamente las precauciones, así como toda la información adicional que aparezca en la etiqueta del adilivo.

Asegúrese de que la aplicación sea uniforme — A fin de evitar que queden áreas sin tratar, que la aplicación no sea uniforme o que las aplicaciones se traslapen, se deben usar marcadores adecuados.

EL CONTACTO PROLONGADO DE ESTE PRODUCTO CON PARTES DE ACERO QUE NO ESTA RECUBIERTO CON ALGUN

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TIPO DE PROTECCION. PUEDE DAR COMO RESULTADO LA CORROSION Y POSIBLEMENTE QUE LAS PARTES FALLEN. Es posible prevenir la corrosión recubriendo las partes con pintura orgànica, que cumpla con las especificaciones aero-espaciales MIL-C-38413. Al final de cada día de trabajo, para evitar la corrosión de las partes expuestas, lave muy bien el avión a lin de remover los residuos de este producto que se acumulan durante el rociado o por derramamientos. Las partes del tren de aterrizaje son extremadamente susceptibles.

7.2 Equipo de aplicación terrestre

Use las proporciones recomendadas de este producto con 3 a 40 galones de agua por acre para rociar de manera diseminada, a menos que se indique de otra manera en este libreto. A medida que la densidad de las malezas aumenta, el volumen de rociado se debe aumentar también para conseguir una cobertura completa, pero siempre dentro de los limites recomendados. A fin de evitar un rociado muy fino, seleccione la boquilla cuidadosamente. Para obtener mejores resultados con equipo a nivel del terreno, use boquillas tipo-abanico plano. Asegúrese de que las gotas del rociado se distribuyan uniformemente.

7.3 Equipo de mano y de alto volumen

Aplique el producto al foltaje de la vegetación que se desea controlar. En aplicaciones de rociado para mojar, la cobertura del foltaje debe ser completa y uniforme. No rocie hasta el punto en que el producto gotee de la vegetación, Use rociadores gruesos solamente.

Para el control de las malezas tistadas en la sección de "MALEZAS ANUALES" de "MALEZAS CONTROLADAS", aplique una solución del 0,5 por ciento de este producto a las malezas de menos de 6 pulgadas de altura o longitud de

extensión. Para las malezas anuales de más de 6 pulgadas de altura, o salvo que se especifique lo contrario, emplee una solución del 1 por ciento. Aplique antes de la formación de semillas en la hierba o la formación de brotes en las malezas de hoja ancha.

Para obtener el mejor resultado, emplee una solución del 2 por ciento en las plantas perennes que son más difíciles de controlar, tales como bermudagrass, dock, field bindweed, hemo dogbane, milkweed y Canada thistle.

Para las aplicaciones de rociado dirigido de bajo volumen, emplee una solución de este producto del 5 al 10 por ciento para el control total o parcial de las malezas anuales y perennes o malorrales leñosos y árboles. La cobertura de rociado debe ser uniforme cubriendo como mínimo el 50 por ciento del follaje. Para obtener el mejor resultado, es importante cubrir la mitad superior de la planta. Para asegurar una cobertura adecuada de rociado, rocie ambos lados de malorrales leñosos y árboles grandes o altos, cuando el lollaje sea tupido y denso o cuando haya múltiples brotes.

7.4 Equipo especializado

Este producto puede aplicarse usando rociadores de recirculación, aplicadores con pantalla, rociadores con capucha, aplicadores por frotación o barras de esponja, dituyendo y mezclando bien con agua, sobre las matezas mencionadas que trecen en lugares no cultivables especificados en este libreto. Los rociadores de recirculación dirigen la solución hacia los tipos de matezas que crecen sobre vegetación deseable, mientras que la solución que no ha sido interceptada por las matezas se recoge y se retorna al tanque para volverta a usar. Los rociadores con pantalla o con capucha aplican la solución del herbicida directamente sobre las matezas, al mismo tiempo que protegen la vegetación deseable, para que no sea locada por el herbicida.

Los aplicadores por frotación o de esponja aplican la solución del herbicida frotando las malezas con un material absorbente que contenga la solución del herbicida.

EVITE EL CONTACTO DEL HERBICIDA CON LA VEGETACION DESEABLE YA QUE ES PROBABLE QUE SUFRA GRAVES DAÑOS O SEA DESTRUIDA TOTALMENTE.

Los aplicadores utilizados por encima de la vegetación deseable deben ser calibrados de tal manera que el rociado o el punto de contacto más bajo esté por lo menos a 2 pulgadas arriba de la vegetación deseable. Gotas, niebla, espuma o salpicaduras del herbicida en contacto con la vegetación deseable pueden causar con mucha probabilidad descoloración, atrofia o destrucción.

Se obtienen mejores resultados cuando una mayor cantidad de la maleza entra en contacto con el herbicida. Las malezas que no entran en contacto con la solución herbicida no serán afectadas. Esto puede ocurrir en lugares donde las malezas están muy concentradas, cuando la infestación es grave o donde la allura de las malezas es variada, lo que no permite que todas sean tocadas por el herbicida. En estos casos puede hacerse necesario repetir el tratamiento.

Aplicadores con pantalla y con capucha

Use boquillas que aseguren un recubrimiento uniforme en toda el área tratada. En los rociadores con pantalla, manienga las pantallas debidamente colocadas a fin de proteger la vegetación que no se desee destruir. SE DEBE TENER MUCHO CUIDADO PARA EVITAR EL CONTACTO DEL HERBICIDA CON LA VEGETACION DESEABLE.

Aplicadores por frotación y barras de esponja

El equipo debe ser diseñado, mantenido y operado de manera que la solución del herbicida no haga contacto con la vegetación deseable. Opere este equipo a velocidades inferiores a las 5 millas por hora. En áreas donde la infestación es grave, se puede mejorar la eficacia reduciendo la velocidad, así se asegura que el frotador esté siempre adecuadamente saturado con la solución del herbicida. Se obtienen mejores resultados si se aplica dos veces en direcciones opuestas.

Evite fugas o goteos sobre la vegetación deseable. Ajuste la altura de los aplicadores a fin de asegurar un contacto adecuado con las malezas. Mantenga timpias las superficies de frotación. Tenga presente que en terrenos inclinados, el herbicida puede migrar causando goteos en la parte baja y el secado de las mechas en la parte superior del aplicador por frotación.

No use aplicadores por frotación cuando las malezas esten mojadas.

Mezcle solamente la cantidad de solución que se usará durante el periodo de un dia, debido a que el uso de sobras de días anteriores puede dar como resultado un efecto menos eficiente. Inmediatamente después de usar este producto, lave bien el aplicador usando bastante agua.

Para aplicadores de cordón o de mecha de esponja— Puede emplearse soluciones que oscilan entre 33 y 75 por ciento de este producto en agua.

Para aplicadores tipo plástico poroso y sistemas a presión—Se pueden usar soluciones que vayan del 33 por ciento al 100 por ciento de este producto con agua.

Cuando se aplica de acuerdo con las condiciones descritas, este producto CONTROLA las malezas siguientes:

Corn, volunteer Panicum, Texas Sicklepod Spanishner

Rye. common

Spanishneedles Starbur, bristly

Cuando se aplica de acuerdo con las condiciones descritas, este producto SUPRIME las malezas siguientes:

Beggarweed, Florida

Ragweed, common Ragweed, giant

Bermudagrass Dogbane, hemp Dogfennel Guineagrass Johnsongrass

Smutgrass Sunflower Thistle, Canada Thistle, mosk Vasevorass

Milkweed Nightshade, silverleaf Pigweed, redroot

Vaseygrass Velvetleaf

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7.5 Sistemas por invección

Este producto puede usarse con sistemas de rociado por inyección, ya sean aéreos o a nivel del terreno. Puede usarse como concentrado líquido no diluido antes de la inyección en el chorro de rociado. No mezcle este producto con concentraciones de otros productos cuando use los sistemas por inyección salvo que se recomiende especificamente.

7.6 Equipo de aplicación por goteo controlado

La proporción del producto aplicado por acre usando el equipo de aplicación por goteo controlado no debe ser menor que la recomendada en este libreto cuando se usa equipo convencional para aplicación diseminada. Cuando se usa el equipo aplicador por goteo controlado montado en un vehículo, use de 3 a 15 galones de agua por acre.

Los equipos de goteo controlado producen un rociado que es dificil de ver. Se debe tener especial cuidado para evitar que el rociado o el acarreo entre en contacto con el follaje o cualquier otra parte verde de la vegetación que no se quiere tratar, ya que en caso contrario, es probable que esta sea dañada o destruida.

8.0 RECOMENDACIONES SEGUN AREAS Y USO

A continuación aparecen las instrucciones detalladas para cada área.

A menos que se específique lo contrario, pueden hacerse aplicaciones para controlar las malezas listadas en las tablas de malezas anuales, perennes y matorrales leñosos. Vea también la sección "EQUIPO SELECTIVO".

8.1 Troncos cortados

El tratamiento de troncos cortados puede hacerse en cualquier área listada en este libreto. Este producto controla muchas especies de matorrales leñosos y árboles, algunos de los cuales se mencionan a continuación. Aplique este producto usando equipo adecuado para garantizar la cobertura completa del cambium. Corte los árboles o sus brotes cerca de la superfície del sueto. Aplique una solución de este producto del 50 al 100 por ciento a la superfície reciên cortada, inmediatamente después del corte. Demorar la aplicación puede reducir la eficacia del producto. Para obtener mejores resultados, la aplicación debetá hacerse durante los períodos de crecimiento activo y expansión completa de las hojas.

Aider Saltcedar
Eucalyptus Sweetgum
Madrone Jan oak
Oak Willing

Reed, giant

NO HAGA LAS APLICACIONES SOBRE TRONCOS CORTADOS CUANDO LAS RAICES DE LOS MATORRALES LEÑOSOS O ARBOLES DESEABLES PUEDEN ESTAR INJERTADAS A LAS RAICES DE LOS TRONCOS CORTADOS. ES PROBABLE QUE LOS MATORRALES LEÑOSOS O ARBOLES ADYACENTES SE VEAN DAÑADOS DEBIDO AL INJERTO DE RAICES.

8.2 Areas generales no cultivables y áreas industriales

Uselo en áreas como aeropuertos, conjuntos de apartamentos, viveros de árboles de Navidad, orillas de acequias, acequias secas, canales secos, filas de vallas, campos de golf, áreas industriales, depósitos de madera, áreas de manufactura, conjuntos de oficinas, viveros ornamentales, parques,

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areas de estacionamiento, terrenos de tanques de petróleo e instalaciones de bombeo, vias de terrocarril, áreas recreativas, áreas residenciales, carreteras, granjas de semillas de céspedes o tepes, escuelas, áreas de almacenamiento, subestaciones de servicios públicos, almacenes, otras áreas públicas y lugares similares industriales y no cultivables.

Control general de malezas, recortado de bordes y suelo limpio de malezas

Este producto puede usarse en áreas generales no cultivables. Puede aplicarse con cualquiera de los equipos descritos en este libreto. Puede usarse para el recortado de bordes alrededor de objetos en áreas no cultivables, para tratamiento localizado de vegetación no deseable y para eliminar las malezas no deseables que crecen en cuadros de arbustos establecidos y plantaciones ornamentales. Este producto puede usarse antes de plantar un área con plantas ornamentales, flores, césped (tepes o semillas), o antes de colocar aslalto o de comenzar un proyecto de construcción.

Pueden hacerse aplicaciones repetidas de este producto, a medida que emergen las malezas, para mantener el suelo límpio de malezas.

Este producto puede mezclarse en tanque con los productos siguientes. Vea las etiquetas de estos productos para ver cuáles son los lugares no cultivables aprobados y las proporciones para su aplicación.

ARSENALIM
BANVEL
BARRICADEIM 65WG
DIURON
ENDURANCEIM
ESCORTIM
GARLONIM 3A
GARLON 4
KARMEXIM DF
KROVARIM I DF
MANAGE®
OUST®

PENDULUM™ 3.3 EC
PENDULUM WDG
PLATEAU™
PRINCEP™ DF
PRINCEP LIQUID
RONSTAR™ 50 WP
SAHARA™
SIMAZINE
SURFLAN™
TELAR™
VANQUISH™
2,4-D

Las mezclas con Banvel y 2.4-D no se pueden aplicar en forma aeren en California.

Cuando se aplica como mezcla de tanque para mantener el suelo limpio de malezas, este producto proporciona control sobre las malezas anuales emergidas y control o control parcial sobre las malezas perennes emergidas, materrales leñosos y árboles.

Para controlar o controlar parcialmente las malezas perennes siguientas, aplique 1 a 2 cuartos de galón de este producto más 2 a 4 onzas de Oust por acre.

Bahiagrass Fescue, tall.
Bermudagrass Johnsongrass
Broomsedge Poorjoe
Dallisgrass Ouackgrass
Dock, curly Vaseygrass
Ooglennel Vervain, blue

Chapeo químico - Plantas perennes

Este producto suprime las hierbas perennes mencionadas en esta sección para servir como substituto del chapeo. Use 8 onzas lluídas de este producto por acre cuando trate tall fescue, fine fescue, orchardgrass o quackgrass. Use 6 onzas fluídas de este producto por acre cuando trate Kentucky bluegrass. Aplique el tratamiento en 10 a 40 galones de solución para rociar por acre.

Uselo solamente en áreas en las que puede tolerarse un daño o decoloración temporal de las hierbas perennes.

Chapeo químico - Plantas anuales

Para suprimir el crecimiento de algunas hierbas anuales, tales como el ballico, la cebada silvestre y la avena loca anuales que crecen en céspedes agrestes al borde de las carreteras u otras áreas industriales, aplique de 4 a 5 onzas fluidas de este producto en 10 a 40 galones de solución de rociado por acre. Las aplicaciones se deben realizar cuando las hierbas anuales crezcan activamente y antes de que las semillas se encuentren en la etapa de "boot" del desarrollo. Los tratamientos pueden perjudicar a las hierbas deseadas.

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Césped tatente

Este producto puede usarse para controlar o suprimir muchas malezas anuales de invierno y tall fescue para el alivio eficaz de cespedes de bermudagrass y bahiagrass latentes. Trate solamente cuando el cesped este latente y anies de reverdecer en la primavera.

Aplique de 8 a 64 onzas fluidas de este producto por acre. Aplique las dosis recomendadas en 10 a 40 galones de agua por acre. Utilícelo sólo en áreas donde bermudagrass o bahiagrass sean coberturas de terreno convenientes y donde pueda tolerarse algún daño temporal o descoloración.

Los tratamientos en exceso de 16 onzas fluidas por acre, pueden dañar o retrasar el reverdecer en las áreas donde se hace mucho mantenimiento, como campos de golf y jardines. No aplique mezclas de tanque de este producto más Oust en áreas de césped donde se hace mucho mantenimiento. Para otros usos, vea la sección "AL BORDE DE LAS CARRETERAS" de esta etiqueta, que proporciona dosis para tratamientos de bermudagrass y bahiagrass latentes.

Bermudagrass de crecimiento activo

Este producto puede emplearse para controlar total o parcialmente muchas malezas anuales y perennes a fin de obtener una distribución eficaz de bermudagrass de crecimiento activo. NO aplique más de 16 onzas fluidas de este producto por acre en áreas de céspedes de alto mantenimiento. NO aplique mezclas de tanque de este producto más OUST en áreas de céspedes de alto mantenimiento. Para otros usos, vea la sección "AL BORDE DE LAS CA-RRETERAS" de esta etiqueta, que proporciona dosis para tratamientos de bermudagrass de crecimiento activo. Utilicelo sólo en áreas donde puede toterarse algún daño temporal o descoloración.

Renovación de césped, producción de semillas o lepes Este producto controla la mayoría de la vegetación existente antes de la renovación del césped o de establecer céspedes

cultivados para semilla o tepes. Para un control máximo de la vegetación existente, demore la siembra o cobertúra de céspec a fin de determinar si las partes de la planta que quedaron bajo tierra vuelven a crecer. Cuando sea necesario repetir el tratamiento, permita que las plantas se desarrollen lo suficiente antes de volver a tratar. Para controlar más eficientemente las hierbas de estación caliente, como bermudagrass, se debe aplicar este producto en el verano o en el otoño. En lugares donde la vegetación existente esté creciendo y el césped esté bajo un programa de siega, aplique este producto después de omitir por lo menos un corte del césped para permitir un crecimiento suficiente a fin de que el rociado sea interceptado por las plantes.

No remueva la tierra ni las partes de la planta que estén bajo tierra antes del tratamiento. La labranza o las técnicas de renovación como corte vertical, perforación o rebanado deben esperar 7 días después de la aplicación a fin de permitir la absorción adecuada en las partes de la planta que estén bajo tierra.

Pueden plantarse los despedes convenientes siguiendo los procedimientos anteriormente mencionados.

Puede utilizarse equipo de mano para el tratamiento in situ de vegetación no deseada que crezca en el césped existente. Puede utilizarse equipo de transmisión o de mano para controlar los restos de tepes u otra vegetación no deseada después de cosecnar el tepe.

No use como alimento ni pastoreo el césped cultivado para la producción de semillas o tepes antes de que transcurran 8 semanas desde la aplicación.

8.3 Manejo de hábitats

Restauración y mantenimiento de hábitats

Este producto quede ser usado para controlar la vegetación exótica y otras plantas indeseables en áreas de manejo de

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hábitats y en áreas naturales, incluyendo hábitats nativos y refugios para la fauna silvestre. Pueden hacerse aplicaciones para permitir la recuperación de las especies de plantas nativas, antes de plantar dichas especies nativas deseables, y para otros requisitos similares de control de la vegetación de amplia efectividad. A fin de eliminar selectivamente ciertas plantas indeseables, se pueden hacer aplicaciones en puntos específicos para controlar y mejorar el hábitat.

Sitios donde se siembran alimentos para la fauna silvestre Este producto puede ser usado para preparar el terreno donde se desea sembrar alimentos para la fauna silvestre. Cualquier especie de alimento para la fauna silvestre puede ser sembrada después de aplicar este producto, o también se puede permitir que las especies nativas vuelvan a poblar el área. Si hace falta labrar para preparar el terreno antes de sembrar las semillas, espere 7 días después de aplicar este producto antes de arar a fin de permitir la absorción adecuada en las partes de la planta que estén bajo tierra.

8.4 Invección y chorro (matorrales leñosos y árboles)

Los matorrales leñosos y árboles pueden ser controlados aplicando este producto por inyección o chorro. Aplique este producto usando equipo adecuado, que debe ser capaz de penetrar en el tejido viviente. Aplique 1 ml de este producto por cada 2 ó 3 pulgadas de diámetro del tronco a la altura del pecho (DBH en inglés). La mejor forma de hacerlo es aplicando una solución del 50 al 100 por ciento, este producto, con un chorro continuo alrededor del árbol o en cortes espaciados unilormemente alrededor del árbol y por debajo del nivel de las ramas. A medida que el diámetro del árbol aumenta, se obtienen mejores resultados con el chorro continuo alrededor del árbol o en cortes espaciados muy

cerca entre si alrededor del arbol. Evite las aplicaciones que permiten el desagüe de material cuando se chorrea alrededor del arbol o sobre los cortes en arboles que tienen la facilidad de exudar savia de los cortes. En especies de este tipo, haga los cortes de manera oblicua a fin de producir el efecto de copa y use el producto sin disolver. Para obtener mejores resultados, la aplicación debe tener lugar durante periodos de crecimiento activo y expansión completa de las hojas. Este tratamiento controlará muchas especies, algunas de las cuales incluyen;

Control Control parcial
Oak Black gum
Poplar Dogwood

Sweetgum Hickory Sycamore Maple, red

8.5 Plantas ornamentales y viveros, árboles de Navidad

Post-dirigido, recortado de bordes

Este producto puede ser usado como un rocio post-dirigido alrededor de especies ornamentales leñosas establecidas, como arborvitae, azalea, boxvood, crabapple, euonymus, fir, douglas fir, jojoba, hollies, filac, magnolia, maple, oak, privet, pine, spruce y yew. Este producto también puede ser usado para recortado de bordes alrededor de árboles, edificios, aceras y carreteras, plantas en macetas y otros objetos de viveros.

Las plantas deseables pueden ser protegidas de la solución usando pantallas o cubriéndolas con carrón o con algun otro material impermeable. ESTE PRODUCTO NO SE RECOMIENDA PARA ROCIARSE DESDE ARRIBA SOBRE PLANTAS ORNAMENTALES Y ARBOLES DE NAVIDAD. Se debe tener mucho cuidado para que el roció, acarreo o vapor

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de este producto no hagan contacto con el follaje o la corteza verde de las especies prinamentales establecidas.

Preparación del terreno

Este producto puede ser usado antes de plantar cualquier tipo de planta ornamental, de vivero o árboles de Navidad.

Invernaderos/cobertizos

Este producto puede ser usado para controlar las malezas que estén creciendo en o alrededor de los invernaderos y cobertizos. No debe haber vegetación que no se quiera destruír y los equipos de ventilación deben estar apagados.

8.6 Parques, áreas recreativas y residenciales

Este producto puede usarse en parques, áreas recreativas y residenciales. Puede aplicarse con cualquiera de los equipos descritos en este libreto. Puede usarse para el recordado de bordes alrededor de árboles, vallas, carninos, alrededor de edificios, aceras y otros objetos en estas áreas. Puede usarse para tratamiento localizado de vegetación no deseable y para eliminar las malezas no deseables que crecen en cuadros de arbustos establecidos y plantaciones ornamentales. Este producto puede usarse antes de plantar un área con plantas ornamentales, flores, césped (tepes o semillas), o antes de colocar asfalto o de comenzar un proyecto de construcción.

Todas las instrucciones de la sección "AREAS GENERALES NO CULTIVABLES Y AREAS INDUSTRIALES" son válidas para los parques y áreas recreativas.

8.7 Vías de ferrocarril

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Todas las instrucciones de la sección "AREAS GENERALES NO CULTIVABLES Y AREAS INDUSTRIALES" son vátidas para las vias de ferrocarril.

Suelo vacio, balastos y bordes, cruces y tratamiento localizado

Este producto puede ser usado para mantener el suelo limpio de malezas en balastos y bordes de las vias de ferrocarril. Pueden hacerse aplicaciones repetidas de este producto, a medida que emergen las malezas, para mantener el suelo limpio de malezas. Este producto puede usarse para controlar las malezas altas y mejorar la linea visual en los cruces de ferrocarril y reducir la necesidad de segar a lo largo de las servidumbres de via. Para aplicaciones en los cruces, pueden usarse hasta 80 galones de solución para rociar por acre. Este producto puede mezclarse en tanque con los siguientes productos para fratamiento de balastos, bordes, tratamientos localizados, suelo limpio de malezas y cruces:

ARSENAL KROVAR I DE
BANVEL OUST
DIURON SAHARA
ESCORT SPIKETM
GARLON 3A TELAR
GARLON 4 2.4-D
HYVARIM X

Control de matorrales

Este producto puede ser usado para controlar matorrales leñosos y árboles en las servidumbres de via. Aplique de 4 a 10 cuartos de galón de este producto por acre para aplicaciones diseminadas, usando boquillas tipo aguitón o sin aguitón. Pueden usarse hasta 80 galones de solución para rociar por acre. Aplique una solución de 3/4 a 2% de este producto cuando haga aplicaciones de rociado para mojar a gran escala. Aplique una solución de 5% a 10% de este producto cuando haga aplicaciones de rociado dirigido a pequeña escala para tratamientos localizados. Este producto puede ser mezclado con los siguientes productos para un mejor control de los matorrales leñosos y arboles:

ARSENAL ESCORT GARLON 3A

GARLON 4 TORDON™ K

RECOMENDACIONES SEGUN AREAS Y USO 33

Mantenimiento del bermudagrass

Este producto puede ser usado para controlar o controlar parcialmente muchas malezas anuales y perennes para el mantenimiento eficaz de bermudagrass que esté creciendo activamente. Aplique de 1 a 3 pintas de este producto en un máximo de 80 galones de solución para rociar por acre. Para tratar malezas anuales que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas. Use la proporción más alta a medida que las malezas aumenten de tamaño o cuando estén cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Bahiagrass Bluestem, silver Fescue, tall Johnsongrass Trumpetcreeper

Vaseygrass

Este producto puede ser mezclado con Oust. Si se mezcla en tanques, no use más de 1 a 3 pintas de este producto con 1 a 2 onzas de Oust por acre. Para tratar malezas anuales listadas en este libreto y en el libreto de Oust, que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas de cada producto. Use la proporción más alta a medida que las malezas aumenten de tamaño o cuando estén cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Bahiagrass Blackberry Bluestem, silver Broomsedge Dallisgrass Fescue, tall
Johnsongrass
Poorjoe
Raspberry
Trumpetcreeper
Vaseygrass

Dewberry Dock, curly Donfennel

vaseygrass Vervain, blue

Uselo solamente en bermudagrass que esté bien establecido. Como resultado del tratamiento, el bermudagrass puede sufrir deterioro, pero volverá a crecer si se riega. No se

recomienda repetir el tratamiento en la misma estación, ya que esto puede ocasionar daños graves al bermudagrass.

Q.8 Carreteras

Todas las instrucciones de la sección "AREAS GENERALES NO CULTIVABLES Y AREAS INDUSTRIALES" son válidas para las carreteras.

Tratamiento de bordes

Este producto puede ser usado en los bordes de las carreteras. Puede aplicarse con rociadores de aguilón, rociadores de aguilón con pantalla, boquillas descentradas de gran volumen, equipo de mano y equipos similares.

Barandas y otros obstáculos para la siega

Este producto puede ser usado para controlar las malezas que crecen debajo de las barandas y alrededor de la señalización y otros objetos en los bordes de las carreteras.

Tratamiento focalizado

Este producto puede ser usado como tratamiento localizado para controlar la vegetación indeseable que crece a lo largo de los bordes de las carreteras.

Mezclas de tanque

Este producto puede mezciarse en tanque con los productos siguientes para tratamientos de bordes, barandas, localizados y de suelo vacio:

BANVEL DIURON ENDURANCE ESCORT KROVAR I DE PRINCEP LIQUID RONSTAR 50WP SAHARA SIMAZINE SURFLAN

OUST PENDULUM 3.3 EC

TELAR 2.4-D

PENDULUM 3.3 ER PENDULUM WOG PRINCEP DF 2,4

Vea las instrucciones generales para mezclas de tanque en la sección "AREAS GENERALES NO CULTIVABLES Y AREAS INDUSTRIALES" de este libreto.

Mantenimiento del Bermudagrass y Bahiagrass

Aplicaciones cuando estén latentes

Este producto puede usarse para controlar o controlar parcialmente muchas matezas anuales de invierno y tall fescue para el alivio eficaz de bermudagrass y bahiagrass latentes. Trate solamente cuando el césped esté latente y antes de su reverdecer primaveral. Este producto puede mezclarse con Oust en tanque para el control residual. Las mezclas de tanque de este producto con Oust pueden retrasar el reverdecer.

Para obtener mejores resultados con malezas anuales de invierno, haga el tratamiento cuando las plantas estén en una etapa temprana de su crecimiento (menos de 6 pulgadas de altura) después de que la mayoría haya germinado. Para obtener mejores resultados con tall fescue, haga el tratamiento cuando el fescue esté en o después de su etapa de 4 a 6 hojas.

Aplique de 8 a 64 onzas fluidas de este producto por acre, solo o en mezcla de tanque con 1/4 a 1 onza de Oust por acre. Aplique las proporciones recomendadas en 10 a 40 galones de agua por acre. Uselo solamente en áreas donde el bermudagrass o bahiagrass son deseables y en las que puede tolerarse un poco de daño o decoloración. Para evitar que el reverdecer se retarde y para minimizar el daño, no agregue más de 1 onza de Oust por acre sobre bermudagrass y no más de 0.5 onzas de Oust por acre sobre bahiagrass, y evite el tratamiento cuando estas hierbas se encuentren en estado semi-latente.

Bermudagrass que esté creciendo activamente

Este producto puede ser usado para controlar total o parcialmente muchas malezas anuales y perennes para el mantenimiento eficaz de bermudagrass que esté creciendo

activamente. Aplique de 1 a 3 pintas de este producto en 10 a 40 galones de solución para rociar por acre. Para tratar malezas anuales que tengan menos de 6 pulgadas de altura (o el largo de las tallos), use las proporciones más bajas. Use la proporción más alta a medida que las malezas aumenten de tamaño o cuando estén cerca de la lloración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Bahiagrass Bluestem, silver Fescue, tall

Johnsongrass Trumpetoreeper Vaseygrass

Este producto puede ser mezclado con Oust. Si se mezcla en tanques, no use más de 1 a 2 pintas de este producto con 1 a 2 onzas de Oust por acre. Para tratar malezas anuales listadas en este libreto y en el fibreto de Oust, que tengan menos de 6 pulgadas de altura (o el largo de los tallos), use las proporciones más bajas de cada producto. Use la proporción más alta a medida que las malezas aumenten de tamaño o cuando estên cerca de la floración o de la formación de semillas. Estas proporciones también controlan parcialmente las siguientes especies perennes:

Bahiagrass Bluestem, silver Broomsedge Dallisgrass Fescue, tall Johnsongrass Poorjoe Trumpetcreeper Vaseygrass Vervain, blue

Dallisgrass Dock, curly Dogfennel

Uselo solamente en bermudagrass que esté bien establecido. Como resultado del tratamiento, el bermudagrass puede sufrir deterioro, pero volverá a crecer si se nega. No se recomienda repetir el tratamiento con la mezcla de tanque en la misma estación, ya que esto puede ocasionar daños graves al

bermudagrass.

Bahiagrass que esté creciendo activamente

Para suprimir el crecimiento vegetativo y la inhibición de la formación de semillas de bahiagrass durante aproximadamente 45 días, aplique 6 onzas fluidas de este producto en 10 a 40 galones de agua por acre. Aplique de 1 a 2 semanas después de reverdecer completo o después de cortar a una altura uniforme de 3 a 4 pulgadas. Esta aplicación debe ser hecha antes de la emergencia de las semillas.

Para la supresión durante un máximo de 120 días, aplique 4 onzas fluidas de este producto por acre, y a continuación una aplicación de 2 a 4 onzas fluidas por acre unos 45 días más tarde. No haga más de 2 aplicaciones al año.

Puede usarse una mezcla de tanque de este producto con Oust. Aplique 6 onzas fluidas de este producto con 0.25 onzas de Oust por acre, 1 a 2 semanas después de la primera siega de la primavera. Haga solamente 1 aplicación al año.

9.0 TIPOS DE MALEZAS CONTROLADAS

Use siempre la proporción más alta de este producto por acre, dentro de las proporciones recomendadas, cuando las malezas son densas o cuando crecen en un área no tocada (no cultivada).

Puede haber una disminución de los resultados cuando se traten malezas cubiertas con mucho polvo. Para las malezas que han sido segadas, pastadas o cortadas, permita que vuelvan a crecer antes del tratamiento.

Vea las secciones siguientes para las proporciones recomendadas para el control de malezas, matorrales leñosos y árboles anuales y perennes. Para las malezas, matorrales leñosos y árboles difíciles de controlar donde las plantas crecen en condiciones de estrés, o donde la infestación es densa, pueden usarse 5 a 10 cuartos de galón por acre de este producto para obtener mejores resultados.

9.1 Malezas anuales

Use 1 cuarto de galón por acre si las malezas tienen menos de 6 pulgadas de altura o largo de los tallos y 1.5 cuartos a 4 cuartos de galón por acre si las malezas tienen más de 6 pulgadas de altura o largo de los tallos o cuando las malezas crecen en condiciones de estrés.

Para aplicaciones de rociado para mojar, aplique una solución de 0.5% de este producto a las malezas que tengan menos de 6 pulgadas de altura o largo de los tallos. Haga la aplicación antes de la formación de semillas para la hierba, o la formación de yemas para las malezas de hoja ancha.

Para las malezas anuales que tienen más de 6 pulgadas de altura o las malezas más pequeñas que crecen en condiciones de estrés, use una solución del 1 al 2 por ciento. Use la dosis más alta para las especies difíciles de controlar o las malezas de más de 24 pulgadas de altura.

ESPECIES DE MALEZAS

Annoda, spurred

Barley*

Barnyardgrass' Bittercress'

Black nightshade*

Bluegrass, annual* Bluegrass, bulbous*

Bassia, (ivehook Brome, downy Brome, Japanese*

Browntop panicum' Buttercup' Carolina foxtail'

Carolina geranium Castor Bean Cheatorass* Cheeseweed

(malva Parvillora) Chervil*

Chickweed* Cocklebur*

Copperleaf, hophornbeam

Corn'

Corn speedwell* Crabgrass* Dwarfdandelion*

Eastern mannagrass* Eclipta*

Fall panicum* Falsedandelion* Falsetlax, smallseed*

Fiddleneck Field pennycress* Filaree

POS DE MALEZAS CONTROLADAS

Fleabane, annual Fleabane, hairy (Conyza bonariensis)* Fleabane, rough Florida pusley Foxtail* Goatgrass, jointed' Goosegrass Grain sorghum (mile) Groundsel, common Hemp sesbania Henbit Horseweed/Marestail (Conyza canadensis) Atchgrass" Johnsongrass, seedling Junglerice Knotweed Kochia Lamb's quarters" Little barley London rocket Mayweed Medusahead: Morninggtory (Ipomoea spp.) Mustard, blue Mustard, tansy* Mustard, tumble Mustard, wild* Oats Pigweed* Plains/Tickseed coreopsis: Prickly lettuce"

Puncturevine

Purstane, common Ragweed, common* Ragweed, giant Red rice Russian thistle Rye' Ryegrass' Sandbur, field Shattercane ' Shepherd's-purse* Sicklepod Signalgrass, broadleaf Smartweed, ladysthumb* Smartweed, Pennsylvania* Sowthistle, annual Spanishneedles Speedwell, purslane! Sprangletop > Spurge, annual Spurge, proshate* Spurge, spotted* Spurry, umbrella" Starthistle, yellow Stinkgrass* Sunflower* Teaweed/Prickly sida Texas panicum Velvetleaf Virginia copperleal Virginia pepperweed* Wheat* Wild oats* Witchgrass*

Woolly cupgrass:

Yellow rocket

Cuando use equipos de aplicación diseminada a nivel del terreno (aplicaciones aéreas o rociadores de aguilón con . boquillas tipo abanico plano), estas especies serán controladas o controladas parcialmente con 1 pinta de este producto por acre: Las aplicaciones deben hacerse usando de 3 a 10 galones de volumen por acre. Use boquillas que garanticen una cobertura completa del follaje y haga el tratamiento cuando las maieras estén en su etapa temprana de crecimiento.

Q.2 Malezas perennes

Los mejores resultados se obtienen cuando las malezas perennes son tratadas una vez que han alcanzado la etapa reproductiva de su crecimiento (inicio de las semillas para hierbas y formación de yemas para malezas de hoja ancha). Para las plantas sin flores, los mejores resultados se obtienen cuando las plantas alcanzan el estado de madurez. En muchos casos, se requiere el tratamiento antes de estas etapas del crecimiento.

En estos casos, use la proporción más alta dentro de las proporciones recomendadas.

Asegürese de que la cobertura sea a fondo cuando emplee tratamientos de rociado para mojar con equipo de mano. Cuando utilice equipo de mano para tratamientos in situ de bajo volumen, aplique una solución de 5 a 10 por ciento de este producto.

Espere 7 días o más después de la aplicación antes de labrar.

Especies de malezas	Proporción (cuartos por acre)	% de solución de mano	
Alfalla '	1	2.	
Alligatorweed 1	4	- 1.5	
Anise (fennel)	2-4	1-2	
Bahiagrass	3-5	2	
Beachgrass, European (Ammophila Arenaria)	-	5	

	TIO OCH LUDITADNO : 45		
Especies de maleza Bentgrass	(cuartos p	n % de solució or acre) de mano	
Baroudas	1.5		
Bermudagrass	5	2	
Bermudagrass, wate (knotgrass)	r 1.5	2 2 2	
Bindweed, field	4-5	,	
Bluegrass, Kentucky	2	2 2 2 1-1.5	
. Blueweed, Texas	4-5	. 2	
Brackenfern	3-4	2	
Bromegrass, smooth	ž	1-1.5	
DUISage, Woolly-leaf	_	2	
Canarygrass, reed	2-3	2	
Canau	3-5	2	
Clover; red, white	3-5	2	
Cogongrass	3-5	2	
Dallisgrass	3-5	2	
Dandelion	3-5 3-5	2	
Dock, curly	3-5 3-5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Dogbane, hemn	4	2	
Fescue (except tall)	3-5	2	
rescue, tall	1-3	2	
German ivy	2-4	2	
Guineagrass	3	1-2	
Horsenettle	3-5	1	
Horseradish	4	2	
lceplant	2	2	
Jerusalem artichoke	3-5	1 2 2 2 1.5-2	
Johnsongrass	2-3	2	
Kikuyugrass	2-3	1	
Knapweed.	4	2 2	
Lantana	_	2 ·	
Lespedeza	3-5	1-1.25	
Milkweed, common	3-5 3 2	2	
Muhly, wirestern	ž	2 .	
Mullein, common	3-5	2 2 2 2	
	- -	2	

Napiergrass 3-5	
Nightehada - 1	2
	2
	1-2
	2
Paragrapa	1.5-2
Pennanungal	2
	2
Dairon handa	1-2 -
Duackarne-	1-2
Reduina -	2
Pond air-	2
Ryacrass	2
SM3rbused at	i
Spurge, leafy 3-5	
Sweet potato, wild-	2 2 2
	ž
Ibietla Canada	1-2
Timothy	
Tornedograms	2
L/UITION14	ž
1/3¢Buggerge	- 2
Vehiotoroon	2
Wheatarres	2 2 2 2 2 2
ricalgrass, western 2-3	2
Control parcial	
— —	

9.3 Matorrales leñosos y árboles

Aplique este producto después de la formación completa de hojas, a menos que se indique de otra manera. Para las plantas más grandes y/o donde la densidad de la vegetación sea alta, use la proporción más alta. En las plantas-enredaderas que han alcanzado el estado leñoso de crecimiento use las proporciones más altas. Los maiores regulcimiento, use las proporciones más altas. Los mejores resultados se obtienen cuando se aplica a finales del verano o en el otoño, después de la formación de frutos

TIPOS DE MALEZAS CONTROLADAS

En zonas áridas, se obtienen mejores resultados cuando se aplica en la primavera o a principios del verano cuando las especies que crecen como materrales tienen alto contenido de humedad y florecen.

Cuando haga tratamientos de rociado para mojar con equipos de mano, asegúrese de que la cobertura sea total.

Cuando use equipos de mano para tratamientos tocalizados con rociado dirigido de poco volumen, aplique una solución del 5% al 10 por ciento de este producto.

Es posible que los sintomas no aparezcan antes de las heladas o del envejecimiento con tratamientos de otoño.

Permita que pasen 7 o más días después de la aplicación antes de labrar, segar o remover. Es posible que se necesite repetir el tratamiento para tratar plantas que emergen de partes enterradas o de semillas. Un poco de colorido otoñal es aceptable en plantas indeseables que pierden las hojas en el otoño, siempre y cuando no hayan sufrido mayor pérdida de hojas. Si la aplicación de otoño se realiza después de que hayan ocurrido hetadas, es posible que se obtengan resultados deficientes.

Especies de malezas	Proporción (cuartos por acre)	% de solución de mano de rociado para mojar
Alder	3-4	1-1.5
Ash*	2-5	1-2
Aspan, quaking	2-3	1-1.5
Bearclover (Bearmat)	2-5	1-2
Beech*	2-5	1-2
Birch	2	1 .
Blackberry	3-4	1-1.5
Blackgum	2-5	1-2
Bracken	2-5	1-2
Broom; French, Scotch	2-5	1,5-2
Buckwheat, California	2-4	1-2
Cascara*	2-5	1-2
Catsclaw*	_	1-1.5

		•	- ·· -
Ceanothus*	2-5	1-2	
Chamise*	2-5	1	
Cherry; bitter, black, pin	2-3	1-1.5	
Covote brush	3-4	1.5-2	
Deerweed	2-5	1	
Dogwood '	2-5	1-2	
Elderberry	2	1	
Elm	2-5	1-2	
Eucalyptus	_	2	
Garse	2-5	1-2	
Hasardia .	2-4	1-2	
Hawthorn	2-3	1-1.5	
Hazel	2	1 :	
Hickory.:	2-5	1-2	
Honeysuckle	3-4	1-1.5	
Hornbeam, American*	2-5	1-2	
Kudzu	4	2	
Locust, black*	2-4	1-2	
Madrone resprouts*	_	5	
Manzanita*	2.5	1-2	
Maple, red	2-4	1-1.5	
Maple, sugar	_	1-1.5	
Monkey flower*	2-4	1-2	
Oak, black, white	2-4	1-2	
Oak, post	3-4	1-1.5	
Oak; northern, pin	2-4	1-1.5	
Oak, Scrub	2-4	1-1.5	
Oak: southern red	2-3	1-1.5	
Peppertree Brazilian	2-5	1-2	
(Florida Holly)			
Persimmon*	2-5	1-2	
Pine	2-5	1.2	
Poison wy	4-5	2	
Poison oak	4-5	2	
Poplar, yellow*	2-5	1-2	
Redbud, eastern	2-5	1-2	
Rose, multitlora	2	1.	

	Proporción	% de solución
Especies de	(cuartos	de mano de
malezas	por acre)	rociado para mojar
Russian olive*	2-5	1-2
Sage, black	2-4	1.
Sage, white	2-4	1-2
Sage brush, California	2-4	i
Salmonberry	2	i
Saltcedar	2-5	1-2
Sassafras*	2-5	1-2
Sourwood:	2-5	1-2
Sumac; laurel, poison.	2-4	1+2
smooth, sugarbush wi		1.7
Sweetgum	2-3	1-1.5
Swordfern*	2-5	1-2
Tallowtree, Chinese	_	1 .
Tan oak resprouts*	_	2
Thimbleberry	2	1
Tobacco, tree*	2-4	1.2
Toyon '	_	2
Trumpetcreeper	2-3	1-1,5
Vine maple*	2-5	1-2
Virginia creeper	2-5	1-2
Waxmyrtle, southern*	2-5	1-2
Willow		1
Yerbasenia"		2

*Control parcial

10.0 LIMITES EN LA GARANTIA Y EN LA RESPONSABILIDAD

Monsanto Company garantiza que este producto concuerda con la descripción química de la etiqueta y es razonablemente adecuado para los propósitos descritos en el libreto títulado Instrucciones Completas para el Uso ("Instrucciones") cuando se usa de acuerdo con dichas Instrucciones y las condiciones que alli se detallan. NO SE HACE NINGUNA OTRA GARANTIA EXPRESA O IMPLICITA ACERCA DE LA IDONEI-DAD PARA UN USO PARTICULAR O COMERCIABILIDAD. Esta garantía está sujeta también a las condiciones y limitaciones que aqui se indican.

El comprador y todos los usuarios deberán reportar con prontitud a esta Compañía acerca de cualquier reclamo que se base en un contrato, negligencia, estricta responsabilidad, y otros actos ilícitos.

El comprador y todos los usuarios son responsables por todas las perdidas o daños que resultasen por el uso o manipulación en condiciones que estén más allá del control de esta Compañía, incluyendo pero no limitândose a: incompatibilidad con productos que no sean los señalados en las Instrucciones, aplicación o contacto con vegetación que no se quiera destruir, condiciones climáticas inusuales, condiciones de clima que estén fuera de los límites que se consideran normales en el lugar de la aplicación y para el periodo de tiempo en el cual se aplica, así como condiciones de clima que estén fuera de los límites indicados en las Instrucciones, aplicaciones que no estén explicitamente aconsejadas en las Instrucciones, condiciones de humedad que estén tuera de los límites establecidos en las Instrucciones, o la presencia de productos en la tierra o sobre ella, en las plantas o en la vegetación que se está tratando, diferentes a los indicados en las Instrucciones.

Monsanto compañía no garantiza ninguno de los productos reformulados o reempacados de este producto, excepto de acuerdo a los requisitos de la administración de esta compañía y con el permiso escrito expreso de esta compañía.

El comprador y todos los usuarios deberán reportar con prontitud a esta Compañía acerca de cualquier reclamo que se base en un contrato, negligencia, estricta responsabilidad, y otros actos ilícitos.

El comprador y todos los usarios son responsables por todas las pérdidas o daños, que resultasen por el uso o manipulación en condiciones que estén más allá del control de esta Compañía, incluyendo pero no limitándose a: incompatibilidad con productos que no sean los señalados en las instrucciones, aplicación o contacto con vegetación que no se quiera destruir, condiciones climáticas inusuales, condiciones de clima que estén fuera de los límites que se consideran normales en el lugar de la aplicación y para el período de tiempo en el cual se aplica, así como condiciones de clima que estén luera de los límites indicados en las Instrucciones, aplicaciones que no estén explicitamente aconsejadas en las Instrucciones, condiciones de humedad que estén luera de los limites establecidos en las Instrucciones, o la presencia de productos en la tierra o sobre ella, en las plantas o en la vegetación que se está tratando, diferentes a los indicados en las Instruccioens.

Esta Compañía no garantiza ninguno de los productos reformulados o reempacados de este producto, excepto de acuerdo a los requisitos de la administración de esta Compañía y con el permiso escrito expreso de esta Compañía.

LA UNICA Y EXCLUSIVA COMPENSACION AL USUARIO O COMPRADOR Y EL LIMITE DE RESPONSABILIDAD DE ESTA COMPAÑIA O DE CUALQUIER OTRO VENDEDOR POR CUALQUIER PERDIDA O POR TODAS LAS PERDIDAS, PERJUCIOS O DAÑOS QUE RESULTASEN DEL USO O MANEJO

DE ESTE PRODUCTO (INCLUYENDO RECLAMOS OUE SE BASEN EN UN CONTRATO, NEGLIGENCIA, ESTRICTA RESPONSABILIDAD Y OTROS ACTOS ILICITOS) SERA EL PRECIO PAGADO POR EL USUARIO O EL COMPRADOR POR LA CANTIDAD INVOLUCRADA DE ESTE PRODUCTO. O A ELECCION DE ESTA COMPAÑIA O DE OTRO VENDEDOR. EL REEMPLAZO DE DICHA CANTIDAD, O SI NO SE OBTUVO MEDIANTE COMPRA SE REEMPLAZARA DICHA CANTIDAD DEL PRODUCTO. EN NINGUN CASO ESTA COMPAÑIA U OTRO VENDEDOR SERAN RESPONSABLES POR DAÑOS INCIDENTALES. CONSECUENTES O ESPECIALES.

En el momento de abrir y usar el producto, se asume que el comprador y todos los usuarios han aceptado tas condiciones de los LIMITES EN LA GARANTIA Y EN LA RESPONSABILIDAD que no pueden variar por medio de ningún acuerdo verbal o escrito. Si las condiciones son inaceptables, devuelva el producto inmediatamente sin abrir el recipiente.

Manage es una marca comercial registrada de la empresa Monsanto Company.

Escort, Hyvar, Krovar, Oust y Telar son marcas comerciales de OUPONT Agricultural Enterprises.

Garlon, Spike, Surflan y Tordon son marcas comerciales de DOV/ AGROSCIENCES.

Banvel, Barricade, Endurance, Princep, y Vanquish son una marca comercial de Novartis Corporation.

Ronstar es una marca comercial de Rhone-Poulenc, Inc.

Arsenal, Pendulum, Plateau, y Sahara son marcas comercial es de American Cyanamid Company.

Banyel es una marca comercial de Micro-Flo Company

Karmex es una marca comercial de Griffin L.L.G.



El herbicida profesional completo de postemergencia y de amplia efectividad, para el control de malezas en zonas industriales, céspedes y ornamentales.

Instrucciones completas para el uso

Registro en la EPA Nº 524-475

EVITE EL CONTACTO DEL HERBICIDA CON EL FOLLAJE, TALLOS VERDES, RAICES NO LENOSAS EXPUESTAS O FRUTOS EXPUESTOS DE LAS COSE-CHAS, PLANTAS Y ARBOLES DESEABLES. EN CASO CONTRARIO ES PROBABLE QUE SUFRAN GRAVES DAÑOS O SEAN DESTRUIDOS TOTALMENTE.

Roundup Pro es una marca registrada y Monsanto y el logo son marcas de la Compañía Monsanto.

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Instrucciones completas para el uso

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Roundup Pro es una marca registrada y Monsanto y el su logo son marcas de la Compañía Monsanto.

2000-2





MONSANTO, COMPANY 600 13th Street, N.W. Suite 660 WASHINGTON, D.C. 20005

Tel: (202) 783-2460 Fax: (202) 783-2468

May 26, 2000

Office of Pesticide Programs 7504C Document Processing Desk (NOTIF) U.S. Environmental Protection Agency Room 266A, Crystal Mall #2 1921 Jefferson Davis Highway Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No. 524-475) Submission of Final Printed Supplemental Label for Spot-Treatment of weeds in dry ditches in

Cranberry Production areas

Monsanto is submitting for your files three (3) copies of the final printed supplemental label for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y2-61) for the above use. This supplemental was approved by the EPA on May 1, 2000.

If you have any questions regarding this submission, please feel free to contact me through Dr. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

Action Hunton

cc: M. Gray

Please read instructions on reverse before completing form.	Form Approved. OMB No. 2070-0060				
Environmental Protection Washington, DC 20	· · L / N S ! I I S				
Application	on for Pesticide - Section I				
1. Company/Product Number 524-475	2. EPA Product Manager Mr. James Tompkins X None Restricted				
4. Company/Product (Name) Roundup Ultra Herbicide	PM# 25				
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name				
	Section - II				
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.	Final printed labels in response to 5/1/2000 Agency letter dated "Me Too" Application. Other - Explain below.				
Explanation: Use additional page(s) if necessary. (For section I and Section II.) Print Plate No. 21137 Y2-61					
	Section - III				
Material This Product Will Be Packaged In:					
Child-Resistent Peckaging Yes No * Certification must be submitted Unit Packaging Yes No. per Unit Packaging wgt. container	Water Soluble Packaging Yes No If "Yes" Package wgt No, per Package wgt No, per Package wgt Other (Specify)				
3. Location of Net Contents Information 4. Size(s) R	stail Container 5 Location of Label Directions On Label On Labeling accompanying product				
6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled					
Section - IV					
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Dr. Marsha Gray Title Registration Manager Telephone No. (Include Area Code) (202) 783-2460					
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly felse or misleading statement may be punishable by fine or imprisonment or both under applicable law. 2. Signature 6. Date Application Received (Stamped)					
Leber Henton 4. Typod Name Debra Hinton	Registration Specialist 5. Date 375				
4. Typed Name Debra Hinton	May 26, 2000				

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completes regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). Ill not exempted by 40 CFR 152.81 (b) (4));
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Examption Statement (EPA Form 8570-27);
- Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on P ** x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 85-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION ! - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only.

 Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 5. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registration, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for aregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for egistration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

<u>SECTION III</u> (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new egistration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
- Indicate the size of the individual packets and number per retail container.
- 1. Type of Retail Container Indicate type of container in which product will be marketed.
- 1. Location of Nat Contents Indicate the location of the net contents information for your product,
- 1. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- . Location of Use Directions Indicate the location of the use directions for your product.
- i. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

ECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, sub.nission, "me-too," reregistration, etc.

-5. Self-explanacury.: . EPA Use Only: --

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



NOT REVIEWED In Accordance with PR Notice Sta-Based on Draft Labeling Dated

EPA Reg. No. 524-475

Roundup Ultra is a registered trademark of Monsanto Company.

SPOT-TREATMENT OF WEEDS IN DRY DITCHES IN CRANBERRY PRODUCTION AREAS.

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNRUP READY® CROPS). DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

USE INSTRUCTIONS: Directed sprays may be used to control weeds growing in the interior and perimeter ditch areas of cranberry production areas. Hand-held sprayers or other appropriate application equipment listed under "APPLICATION EQUIPMENT AND TECHNIQUES" in the Roundup Ultra herbicide label booklet may be used. Drop water level to remove standing water in ditches prior to application. In hand-held sprayers, use 1 to 2 percent solution of Roundup Ultra herbicide on a volume-to-volume basis with water. Spray to wet vegetation, not to run-off.

PRECAUTIONS, RESTRICTIONS: For treatments after drawdown of water in dry ditches, allow 2 or more days after treatment before reintroduction of water to achieve maximum weed controf. Apply this product within 1 day after drawdown to ensure application to actively growing weeds. Allow a minimum of 30 days between last application and harvest of cranberries. Do not apply this material through the irrigation system. Do not make applications by air. Do not apply directly to water.

Contact of the herbicide solution with desirable vegetation may result in damage or severe plant injury. Use nozzles that emit medium to large-sized droplets to minimize drift. The likelihood of crop injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing, or when there are other meteorological conditions that favor spray drift. Avoid drift. Extreme care must be used when applying this product to avoid injury to desirable plants and crops.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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21137Y2-61

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5/1/2000



Monsanto Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2468

May 25, 2000

Document Processing Center (NOTIF)
Office of Pesticide Programs (7504C)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention:

Mr. James A. Tompkins

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No 524-475)

Post-Directed Applications in Pine Trees Notification of Final Printed Labeling

Dear Mr. Tompkins:

Roundup Ultra and Roundup® Pro are two herbicide products which share EPA Registration Number 524-475. Generally, Roundup Ultra is intended for crop uses which Roundup Pro is focused on non-crop uses. In some instances, because of availability or convenience, users may prefer to crossover the uses for application sites that could arguably belong on either label. One such use site is directed spray around pine trees.

The attached final printed label For Roundup Ultra is notified to the Agency. The text is the same as that approved and printed in the Roundup Pro booklet label, Section 8.5, except that pine trees are the only specified tree in the present label.

If you have any questions on this matter please feel free to contact me through Dr. Marsha C. Gray (202-383-2878) or by direct phone (314-694-1582), fax (314-694-4028), or electronic mail at stephen.j.wratten@monsanto.com.

Sincerely,

Stephen J. Wratten

Manager, Registrations

cc: M. C. Gray

Ultra Pine Trees FPL doc

Please read instructions on re	everse before completing form.		Form Approved	. OMB No. 207	0-0060	<u></u>		
0.504	United States Environmental Protectio Washington, DC 204	60	×	Registrat Amendm Other		OPP Identifier Number		
	Applicatio	n for Pestici	de - Section	1 L				
1. Company/Product Number	524-475	Mr.	2. EPA Product Manager Mr. James Tompkins			None Restricted		
4. Company/Product (Name) Roundup Ultra	Herbicide	PM#	PM# 25					
5. Name and Address of App Monsanto Comp 600 13th Stre Washington, I	pany eet, N.W., Suite 660	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No						
Check if this	is a new address	Produ	uct Name					
		Section -	11					
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below. Final printed labels in response to 13 - Jan - 179 Agency letter dated "Me Too" Application. Other - Explain below.								
Explanation: Use addition	ed page(s) if necessary. (For section . Print Plate No					•		
		Section -	<u> </u>	· ,				
1. Material This Product Will	Be Packaged In:							
Child Resistant Packaging Yes* No * Certification must	Unit Packaging Yes No No No No, per Unit Packaging wgt. container	Water Soluble Yes No If "Yes" Package wgt	Packaging No. per container	2. Type of C	Metal Plastic Glass Paper	Spacify)		
be submitted		<u> </u>						
3. Location of Net Contents Label C	Information 4, Size(s) Ref	tail Conteiner	\ <u>_</u>	On Label		penying product		
6. Manner in Which Label is	Affixed to Product Lithog Paper Stensi	glued led	Other	· · · · ·				
		Section -			<u> </u>			
·	items directly below for identification		be contacted, if n					
Name Dr. Marsha G	ray 	Regist	tration Mana	iger	(202)	e No. (Include Area Code) 783-2460		
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. 8. Date Application Received (Stamped)								
2. Signature	What	3. Title Manager, Registrations						
, ,	Wratten, PhD	5. Date May	25, 2000			1 /C (

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2135), U.S. Environmental Protection Agency, 404 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration aubmitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exampted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Examption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 8. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mackup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 85-5.

<u>SPECIFIC INSTRUCTIONS</u>: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager,
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant. The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registration, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be aligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for a registration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for agistration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, past or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

ECTION III (Peskeging and Container Information) - This Section must be completed for all applications submitted in connection with new agistration or applicable amendments.

- . Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
- Indicate the size of the individual packets and number per retail container,
- !. Type of Retail Container Indicate type of container in which product will be marketed.
- . Location of New Contents indicate the location of the net contents information for your product.
- . Size e, of Retail Container Specify the net contents of all retail containers for your product.
- i. Location of Use Directions Indicate the location of the use directions for your product.
- i. Manner in which label is affixed to product Indicated the method product label is attached to ratell container.

ECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, saubmission, "me-roo," reregistration, etc.

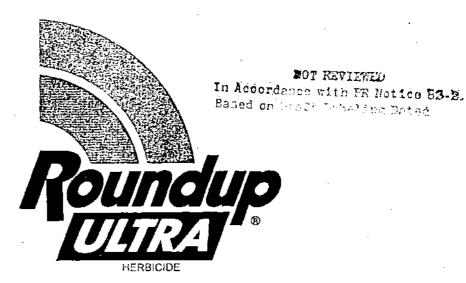
- Self-explanatory.
- EPA Use Only.

SUPPLEMENTAL LABELING

Nelycotion

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra is a registered trademark of Monsanto Company.

FOR POST-DIRECTED APPLICATIONS IN PINE TREES

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

USE INSTRUCTIONS: Post-directed, Trim-and-edge This product may be used as a post-directed spray around established woody species such as pine.

Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established species.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

21137Y1-88

5/23/2000

.381



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

MAY 2 4 2000

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Annette M. Kirk Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Ms. Kirk:

Subject: Roundup Ultra Herbicide (Additional Residue Data for Preharvest Field Corn)

Roundup Ultra RT Herbicide EPA Registration No. 524-475 Roundup Ultra Dry Herbicide EPA Registration No. 524-504 Your Letter Dated March 15, 2000

This acknowledges receipt of your letter dated March 15, 2000 transmitting residue data requested as a condition of registration to support preharvest to field corn. This data has been routed to the proper discipline for review and comment. Further action will await completion of scientific review and evaluation.

The MRID assigned the data accompanying this submission is 45066901.

Sincerely,

Judge Kulder Jes James A. Tompkins Product Manager 25 Herbicide Branch Registration Division (7505C)



MONSARTO COMPANY 600 13th Street, N.W.

Suite 660

Washington, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2468

450669-00

March 15, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (AMEND)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Additional Residue Data to Support the use of Roundup UltraTM Herbicide, Roundup Ultra RT Herbicide (EPA Reg. No. 524-475), and Roundup UltraDry Herbicide (EPA Reg. No. 524-504) Preharvest to

Field Corn

Data Submission R.D. No. 1501

Dear Mr. Tompkins:

Monsanto herein submits additional residue data to support the use of Roundup Ultra Herbicide and other glyphosate containing formulations for preharvest applications to field corn. Originally this preharvest corn use was approved on Roundup Ultra Herbicide (524-475) and has subsequently been extend to Roundup Ultra RT Herbicide (524-475) and Roundup UltraDry (524-504). Enclosed for Agency review is a one-volume data submission designated as R.D. No.1501.

On March 28, 1997, the Agency conditionally registered the use of Roundup Ultra Herbicide (EPA Reg. No. 524-475) for preharvest applications to field corn (PP# 8F3673). This approval was conditional on the submission of addition residue data within three years of this date of approval. The need for additional data was based on the conclusion that data from the residue study conducted in 1995 (submitted June 12, 1996; MRID 43655701 and 43655702) representing 12 sites located in Region 5 and Region 6, were inadequate to represent all the U.S. fiield corn growning regions. In addition, data submitted on aspirated grain fractions were also found to be inadequate based on the significant difference between the two concentration factors for this processed fraction.

The data provided in the enclosed study satisfy the request for additional residue and processing data. The results of this study indicate that glyphosate residues in grain and stover were well within the existing US tolerances of 1 ppm and 100 ppm, respectively. In addition, the concentration factors determined from the two processing sites in this new study were much more consistent than those from the previously submitted study, and show that the existing US tolerance for glyphosate in aspirated grain fractions of 200 ppm is sufficient to support the preharvest corn use.

Note that the Agency, also on March 28, 1997, conditionally registered the use of Roundup Ultra Herbicide for over-the-top applications (including preharvest) to com with the Roundup Ready Gene (PP# 5F4555). For both the registration of the organized corn use and the use over Roundup Ready corn, the accompanying letters from the Agency indicated that, "This registration expires four (4) years from the date of this letter.".

Monsanto requests that, once the enclosed residue study has been reviewed; the Agency acknowledge in writing that the conditions on the registration of the preharvest corn use have been satisfied, and that both the preharvest corn use and uses over Roundup Ready corn are now considered permanent.

If you have any questions regarding this submission please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-8890.

Sincerely,

Annette M. Kirk Registration Manager

cc: R. P. Schneider

TRANSMITTAL DOCUMENT

SUBMITTED BY

Monsanto Company 800 N. Lindbergh Blvd. St. Louis, Missouri 63167

REGULATORY ACTION IN SUPPORT OF WHICH THIS PACKAGE IS SUBMITTED

Request for Additional Residue Data for Preharvest Applications to Field Corn

TRANSMITTAL DATE

March 15, 2000

RD No. 1501

SUBMITTED STUDIES

Vol. Study Description

McCann, M.C., "Magnitude of Glyphosate Residues in Corn Raw Agricultural Commodities Following Preharvest Application of Roundup UltraTM Herbicide" (1999), MSL-14917, an unpublished study conducted by Monsanto Company. (Guideline OPPTS 860.1500)

45066901

· MRID

COMPANY OFFICIAL:

Annette M. Kirk

Registration Manager

COMPANY NAME:

MONSANTO COMPANY

800 NORTH LINDBERGH BLVD.

ST. LOUIS, MO 63167

COMPANY CONTACT:

Russell P. Schneider, Ph.D.

(202) 383-2866

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs

MONSANTO COMPANY 700 CHESTERFIELD PARKWAY NORTH ST LOUIS, MO 63198

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your transmittal of 03/17/00. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Annette M. Kirk Monsanto Company 600 13th Street, N.W. Suite 660 Washington, DC 20005

Dear Ms Kirk

Latily etc & Brock in admet

Subject: Roundup Ultra Herbicide (Use on Roundup Ready Corn Using Drop Nozzle Application

And Residue Data Comparing New Lines of Roundup Ready Corn)

EPA Registration No. 524-475 Your Letter Dated March 22, 2000

This acknowledges receipt of your letter dated March 22, 2000 transmitting residue data comparing new strains of Roundup Ready Corn and residue data supporting an application to register the use on Roundup Ready Corn with drop nozzles. This data has been routed to the proper discipline for review and comment. Further action will await completion of scientific review and evaluation.

The MRIDs assigned the data accompanying this submission follow.

Volume 2

45077401 45077402

Volume 3

Sincerely,

Vuku Kulatoshi James A. Tompkins Product Manager 25 Herbicide Branch

Registration Division (7505C)



Food · Health · Hope™

Mansanto Сфирану 600 13th STREET, N.W. **SUITE 660** WASHINGTON, D.C. 20005

TEL: (202) 783-2460

Fax: (202) 783-2468

March 22, 2000

Hand Delivered

450774-00

Office of Pesticide Programs Document Processing Center (AMEND) U.S. Environmental Protection Agency Room 266A, Crystal Mall #2 1921 Jefferson Davis Highway Arlington, VA 22202

Label etc in duren :

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Information to support the use of Roundup Ultra® Herbicide

(EPA Reg. No. 524-475) in Roundup Ready® Corn using drop nozzle applications; Supplemental Residue Data Comparing New Lines of

Roundup Ready Corn

R.D. No. 1502

Dear Mr. Tompkins:

Monsanto herein submits information to support the use of Roundup Ultra Herbicide over Roundup Ready com. Enclosed is a three-volume submission designated as R.D. No.1502. Volume 1, the administrative volume, includes the required forms and a new proposed supplemental label for Agency review and approval. The proposed new supplemental label for applications in Roundup Ready com, includes postemergence over-the-top broadcast applications and in addition, a directed-spray application using drop nozzles. Residue levels for com, field, grain and stover will be within the currently established tolerances of 1.0 and 100 ppm for these commodities, respectively, and residues in corn, field, forage will be within the pending proposed tolerance of 3 ppm, when glyphosate is applied in Roundup Ready corn at the proposed application rates and timings. Residue data from the 1998 growing season, on Roundup Ready corn raw agricultural commodities, can be found in Volume 2 of this submission.

On March 10, 1997, Monsanto representatives met with EPA personnel to discuss Monsanto's regulatory strategy for the continued research and development of new lines of Roundup Ready crops in general, and new lines of Roundup Ready corn in particular. Roundup Ready Com March 22, 2000 Page - 2 -

As follow-up to the information exchanged at this meeting, Volume 3 of this submission is a study conducted to compare the levels of glyphosate residues in several new lines of Roundup Ready corn. The new lines of Roundup Ready corn tested in the submitted study, have each been genetically transformed to express the CP4 EPSPS protein conferring glyphosate tolerance. The results of this study demonstrate that the glyphosate residues in forage, grain and stover in the new lines of Roundup Ready corn are comparable to those in the currently commercial line, GA21, which expresses a modified maize EPSPS. These data provide no new information, but serve to further demonstrate that for new lines of the same Roundup Ready crop which contain the same gene(s) conferring glyphosate tolerance, the residue profile will remain the same, within experimental variability. This report is submitted to the Agency as supplemental information only, as these data are not required to support the currently approved use of Roundup brand herbicide products over Roundup Ready corn.

If you have any questions regarding this submission please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-8890.

Sincerely,

Annette M. Kirk Registration Manager

cc: R. P. Schneider

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs

MONSANTO COMPANY 700 CHESTERFIELD PARKWAY NORTH ST LOUIS, MO 63198

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your transmittal of 03/23/00. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.

TRANSMITTAL DOCUMENT

SUBMITTED BY

Monsanto Company 800 N. Lindbergh Blvd. St. Louis, Missouri 63167

REGULATORY DATA SUBMITTED IN SUPPORT OF THIS REQUEST.

Information to Support the Use of Roundup Ultra Herbicide with Drop Nozzle
Applications to Roundup Ready Corn
Supplemental Residue Data Comparing Different Lines of Roundup Ready Corn

TRANSMITTAL DATE

March 22, 2000 RD No. 1502

SUBMITTED STUDIES

<u>v 01.</u>	Study Description								
1	Administrative Materials for Product Registration								
2	Agricultural Comm Herbicide" (1999),	ude of Glyphosate Residues in Roundup Ready (odities Following Drop Nozzle Application of R MSL-15334, an unpublished study conducted by ne OPPTS 860.1500)	Roundup Ultra®						
	MRID 450	077401							
3	Ready Com Lines F	J., "Magnitude of Glyphosate Residues in Differ Following Topical Application of Roundup Ultra 2, an unpublished study conducted by Monsanto 860.1500)	ı® Herbicide [™]						
	MRID 450	77402	:						
СОМ	PANY OFFICIAL:	Annette M. Kirk	• • • • • • • • • • • • • • • • • • • •						
		Registration Manager	• • •						
СОМ	PANY NAME:	MONSANTO COMPANY 800 NORTH LINDBERGH BLVD							
· COM	PANY CONTACT:	ST, LOUIS, MO 63167							
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(202) 383-2866



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

MAY - 1 2000

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

-Mr. Stephen J. Wratten Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005

Dear Mr. Wratten:

Subject: Roundup Ultra Herbicide (Post Harvest Spot Treatment In Cranberry Bogs) EPA Registration No. 524-475

Your Application Dated March 28, 2000

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins
Product Manager 25
Herbicide Branch

Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ® ULTRA HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra and this supplement.

ROUNDUP ® ULTRA Herbicide by Monsanto

EPA Reg. No. 524-475

POST HARVEST SPOT-TREATMENT OF WEEDS IN CRANBERRY BOGS

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

® Roundup Ultra is a registered trademark of Monsanto Company.

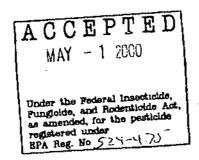
DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNRUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.



DIRECTIONS FOR USE

USE INSTRUCTIONS:

Application of this product may be made after the harvest of cranberries to control weeds growing within the field. Best results will be obtained if applications are made to vines that appear dormant (after they have turned red). Hand-held sprayers, wipers, or other appropriate application equipment listed under "APPLICATION EQUIPMENT AND TECHNIQUES" in the Roundup Ultra herbicide label booklet may be used. If using hand-held sprayers, use a ½ to 1% solution of Roundup Ultra herbicide on a volume-to-volume basis with water. Spray to wet vegetation, not to run-off. If using hand-held boom sprayers, apply 2 to 4 quarts of this product per acre.

PRECAUTIONS, RESTRICTIONS:

Make applications only after cranberries have been harvested. Do not treat more than 10 percent of the total bog. Allow a minimum of 6 months after last application and next harvest of cranberries. Do not apply this product through the irrigation system. Do not make applications by air. Do not apply directly to water.

Even though vines appear dormant, contact of the herbicide solution with desirable vegetation may result in damage or severe plant injury. Cranberry plants that are directly sprayed may be killed. Use nozzles that emit medium to large-sized droplets to minimize drift. The likelihood of crop injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing, or when there are other meteorological conditions that favor spray drift. Avoid drift. Extreme care must be used when applying this product to avoid injury to desirable plants and crops.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

© Monsanto Company 2000

MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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Dr. Russell P	. Schneider	Agricultura Director	l Regula	tion Te		e No. (Include Area Code) 7성3-2460
	Certificati ements I have made on this form and a my knowingly false or misleading stater a law.	li attachments thereto s		-	ete.	6. Data Application Received (Stamped)

3. Title

5. Data

Manager, Registrations

March 28, 2000

Stephen J. Wratten, Ph.D.

2. Signeture

4. Typed Name

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Examption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on . x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in bahalf of another party, you must submit authorization from that party to act for them in registration metters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable craendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
- Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Conteiner Specify the net contents of all retail containers for your product.
- 5. Location of Usa Disactions Indicate the location of the use directions for your product.
- 6. Niumer in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION (Confect Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-tcc," reregistration, etc.

- 1-5. Self-explanatory,
- 6. EPA Use Only.



MONSANTO COMPANY 600 13th Street, N.W. -Suite 660 Washington, D.C. 20005

Tel: (202) 783-2460 Fax: (202) 783-2468

March 28, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (AMEND)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No. 524-475)

Post Harvest Spot Treatment in Cranberry Bogs

Dear Mr. Tompkins:

Monsanto has been contacted by the University of Massachusetts Cranberry Extension program with a request to provide a label to allow the use of Roundup Ultra to control invasive and troublesome weeds in cranberry bogs after the harvest of the berries. The attached proposed label text has been developed for Agency review and approval.

The cranberry growers only wish to use this method after the berries have been harvested and the vines are dormant. They emphasize that since there is at least 6-month interval between the treatment and the next cranberry harvest, there is little likelihood of residues which would exceed tolerance. In addition, they have agreed to a restriction that no more than 10% of the cropped area may be treated in this manner. Since cranberries are blended and not eaten individually, this limitation will further ensure that any potential residues in treated areas will be reduced 10-fold by mixing with berries from untreated areas.

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider (202-383-2866) or by direct phone (314-694-1582), fax (314-694-4028), or electronic mail at stephen.j.wratten@monsanto.com.

Sincerely,

Stephen J. Wratten Manager, Registrations

cc: R. P. Schneider

Ultra Cranberry postharvest.doc



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

MAY - 1 2000

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Mr. Stephen J. Wratten Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005

Dear Mr. Wratten:

Subject: Roundup Ultra Herbicide (Revise Spot-Treatment In Dry ditches In Cranbery Production Areas)

EPA Registration No. 524-475

Your Application Dated March 13, 2000

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. A stamped copy of labeling is enclosed for your records.

Sincerely,

Judge Condens
James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ® ULTRA HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra and this supplement.

ROUNDUP ® ULTRA Herbicide by Monsanto

EPA Reg. No. 524-475

SPOT-TREATMENT OF WEEDS IN DRY DITCHES IN CRANBERRY PRODUCTION AREAS

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

® Roundup Ultra is a registered trademark of Monsanto Company.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNRUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

ACCEPTED

MAY - 1 2000

Under the Pederal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under BPA Reg. No 524-535

DIRECTIONS FOR USE

USE INSTRUCTIONS:

Directed sprays may be used to control weeds growing in the interior and perimeter ditch areas of cranberry production areas. Hand-held sprayers or other appropriate application equipment listed under "APPLICATION EQUIPMENT AND TECHNIQUES" in the Roundup Ultra herbicide label booklet may be used. Drop water level to remove standing water in ditches prior to application. In hand-held sprayers, use 1-2% solution of Roundup Ultra herbicide on a volume-to-volume basis with water. Spray to wet vegetation, not to run-off.

PRECAUTIONS, RESTRICTIONS:

For treatments after drawdown of water in dry ditches, allow 2 or more days after treatment before reintroduction of water to achieve maximum weed control. Apply this product within 1 day after drawdown to ensure application to actively growing weeds. Allow a minimum of 30 days between last application and harvest of cranberries. Do not apply this material through the irrigation system. Do not make applications by air. Do not apply directly to water.

Contact of the herbicide solution with desirable vegetation may result in damage or severe plant injury. Use nozzles that emit medium to large-sized droplets to minimize drift. The likelihood of crop injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing, or when there are other meteorological conditions that favor spray drift. Avoid drift. Extreme care must be used when applying this product to avoid injury to desirable plants and crops.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

@ Monsanto Company 2000

MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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EPA Form 4570-45 (3-75)

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	Α	pplication	for Pesticide	- Section	1 l		-	
. Company/Product Nu	524-475		2. EPA Product Manager Mr. James Tompkins				None Restricted	
i. Company/Product (N Roundup	ame) Ultra Herbicide		25 X None X None					
Monsarito Co 600 13th St Washington,	reet, N.W., Suite		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 3 21 2000 Product Name					
		<u> </u>	Section - II					
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Amendmen	t of supplemental	cranberry	label		·	····		
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Name .	ll P. Schneider	·····	Մա• Agricultu Director		······································	Telephor	ne No. (Include Area Code) 783-2460	
-	statements I have made on hat any knowingly false or m cable law.		attachments there			-	8. Date Application Received (Stumped)	
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EPA Form 8570-1 (Rev	. 8-94) Previous editions are	obsolete.		White	- EPA File Copy	(original	Yellow - Applicant Copy	

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to everage 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Conffication with Respect to Citation of Date (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- .2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Examption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a
 basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 5. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for eregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for egistration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

ECTION III (Fackaging and Container Information) - This Section must be completed for all applications submitted in connection with new agistration or applicable amendments.

- . Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
- * histicate the size of the individual packets and number per retail container.
- .. Typo of Retail Container Indicate type of container in which product will be marketed.
- Lagration of Net Contents Indicate the location of the net contents information for your product.
- Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- . Location of Use Directions Indicate the location of the use directions for your product,
- . Manner in which label is affixed to product Indicated the method product label is attached to retail container.

ECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, submission, "me-too," reregistration, etc.

- -5. Salf-explanatory.
- . EPA Use Only.

MONSANTO, COMPANY 600 13th Street, N.W. Suite 660 Washington, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2468

March 13, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (AMEND)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Amendment of Supplemental Cranberry Label

Dear Mr. Tompkins:

On 8-Jun-1999, EPA approved a supplemental label for Roundup Ultra Herbicide which allows weed control in dry ditches around cranberry production areas. Since that label approval, a University of Massachusetts Cranberry Extension Agent has requested that Monsanto reduce the delay period between treatment and re-flooding of water from 7 days to 2 days. That change is proposed in the attached amendment to the supplemental label. That is the only change.

Monsanto voluntarily proposed the 7-day period because we had been initially concerned that re-flooding too soon been might reduce weed control performance and possibly injure the vines if glyphosate were taken up in the water via the roots. Growers prefer a shorter period, to provide flexibility to irrigate fields more frequently. A 2-day period is sufficient to ensure that wash-off will not reduce weed control performance, and we have been informed that cranberry roots are protected from uptake by soil, as roots do not grow into the ditches. Based on this, we are comfortable with a reduced waiting period.

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider (202-383-2866) or by direct phone (314-694-1582), fax (314-694-4028), or electronic mail at stephen j.wratten@monsanto.com.

Sincerely,

Stephen J. Wratten

Manager, Registrations

cc:

R. P. Schneider

G. Elmore

Cranberry 2Day.doc



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

MAY - 1 2000

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Mr. Stephen J. Wratten Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005

Dear Mr. Wratten:

Subject: Roundup Ultra Herbicide (Add Wiper Application to Spearmint and Peppermint)

EPA Registration No. 524-475

Your Application Dated February 8, 2000

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ® ULTRA HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra and this supplement.

ROUNDUP ® ULTRA Herbicide by Monsanto

EPA Reg. No. 524-475

WIPER APPLICATIONS OF WEEDS IN PEPPERMINT AND SPEARMINT

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

® Roundup Ultra is a registered trademark of Monsanto Company.

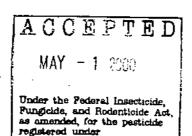
DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNRUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.



BPA Reg. No.

DIRECTIONS FOR USE

USE INSTRUCTIONS:

This product may be used in wiper applications in peppermint and spearmint. For more information on wiper applications, see the "APPLICATION EQUIPMENT AND TECHNIQUES" section of the label booklet for Roundup Ultra herbicide.

Applicators should be adjusted so that the wiper contact point is at least 2 inches above the crop. Weeds should be a minimum of 6 inches taller than the crop. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when height of weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. Better results may be obtained if 2 applications are made in opposite directions.

PRECAUTIONS, RESTRICTIONS: Contact of the herbicide solution with mint may result in damage or destruction. Allow at least 7 days between application and harvest. Sequential application may be made in the same area at 30-day intervals.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

© Monsanto Company 2000

MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

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. Company/Product Number	524-475			2. EPA Product Manager Mr. James Tompkins						
Roundup Ulitra				PM# 25						
Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005					6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 2/10/2000					
Check if this	is a new address			Product	Name					
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Wiper applicat	ions in spearr	mint and		tion - III				* ******		
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1. Contact Point Complete	items directly below	for identification	n of indiv	idual to be o	ontacted, if ne	cassary, to proce	ss this	application.)		
Nama Dr. Russell P.	Schneider			gricultu irector	ral Regul	ation Te	•	No. (Include Area Code) 783-2460		
I certify that the state I acknowledge that an both under applicable	y knowingly false or i	Certifican this form and	ell attaci tement me	iments there sy be punisha	to ere true, actable by fine or	curate and comp imprisonment or	lete.	6. Date Application Received (Stamped)		
2. Signature	-11/1 1	<u> </u>	3. Title					<u>'</u>		

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

Stephen J. Wratten, Ph.D.

4. Typed Name

White - EPA File Copy (original)

Manager, Registrations

February 8, 2000

5. Date

Yellow - Applicant Copy

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

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- 5. Three copies of any date submitted;
- Authorization letter where applicable;
- Matrices where applicable.

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Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registram, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. 歌氣 2. odust Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Clausification Specify the proposed classification of this product.
- 4. Product Name State the complete product name of this posticide as it will appear on the label. The name must be specific to this product only. Durplestian of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (8) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

Subject of submission - Chack the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, post or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
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SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resultance for Registration, actions, i.e., new products registration.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

4/2

Transmitter



Monsanto Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005 Tel: (202) 783-2460 Fax: (202) 783-2468

February 8, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (AMEND)
U. S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA . 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No. 524-475)

Wiper Applications in Spearmint and Peppermint

Dear Mr. Tompkins:

Monsanto requests approval of a supplemental label for Roundup Ultra herbicide to add wiper applications as an acceptable method of weed control in spearmint and peppermint crops. Five (5) copies of the proposed text are enclosed for EPA review and approval.

As outlined in the IR-4 Pesticide Petition 4E4404, mint was determined by the Agency to be sufficiently similar to pasture grasses and non-grass animal feeds (alfalfa and clover) that the existing residue data on these crop groups could be used. Tolerances at the 200 ppm level, the same level as alfalfa, clover, and grass crops, were established for spearmint and peppermint according to the Final Rule at 60 FR 45062 - 64 on 30-Aug-1995. Following this Tolerance Rule, the Directions for Use of glyphosate product line were amended to include spot treatment in mint crops, typified by Section 8.12 of the Roundup Ultra label.

Mr. Tompkins Page 2 8-Feb-00

Monsanto has had a request from mint growers in California that they be allowed to use wipers in addition to the spot treatments for weed control. Examination of the Roundup Ultra label shows that both spot treatment and wipers are permitted alfalfa, clover (Section 8.1) and in pasture grasses (Section 8.13). Since the mint uses and tolerances were modeled after these two crop groups, and rely on the same underlying residue data, it seems reasonable that both spot treatments and wipers should also be allowed in spearmint and peppermint. The 200 ppm tolerance established for spearmint and peppermint should be sufficient to cover any inadvertent herbicide contact with the crop when the wipers are used, particularly since the present label allows up to 10% of the area to be directly sprayed as a spot treatment.

The proposed label retains the 7-day preharvest interval and 30-day re-treatment interval that is presently required for the spot treatment use.

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider (202-383-2866) or by direct phone (314-694-1582), fax (314-694-4028), or electronic mail at stephen.j.wratten@monsanto.com.

Sincerely

Stephen J. Wratten Manager, Registrations

cc: R. P. Schneider

Ultra Mint wipers.doc



April 25, 2000

MONSANTO COMPANY 600 13th Street, N.W. Suite 660 Washington, D.C. 20005

TEL: (202) 783-2460 Fax: (202) 783-2468

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475) Submission of Final Printed Supplemental Label for Use only for Seed Production of Alfalfa with the

Roundup Read Gene

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y1-83) for the above use. This supplemental was approved by the EPA February 16, 2000.

If you have any questions regarding this submission, please feel free to contact me through Ms. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

Debu Hondon

cc: M. Gray

Please read instructions on reven	se before completi	ing form.		Form Ap	proved.	OMB No. 20	70-0060		
\$EPA En	vironmental	Protections of the protection	_		X	Registra Amendr Other	tion	OPP Identifier Number 268125	
	F	Application	n for	Pesticide - Se	ction	1	•	• · · · · · · · · · · · · · · · · · · ·	
1. Company/Product Number	524-475			2. EPA Product Mr. James	-	kins		posed Classification	
4. Company/Product (Name) Roundup Ult	tra Herbicid	е		PM 	á	25	X	None Restricted	
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005 Check if this is a new address				6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No.					
			Sec	Product Name					
Amendment - Explain belo	to Agency letter of	d		r	itter det Applice	stion.	2	/16/2000	
Explanation: Use additional page(s) if necessary. (For section I and Section II.)									
			Sec	tion - III					
1. Material This Product Will Be F	Peckaged In:								
Yes* No	Yes No Yes Yes Tes" t Packeging wgt.	No. per container	If "Yes	Soluble Packaging Yea No s* No. pe ge wgt contain		2. Type of	Container Metal Plastic Glass Paper Other (S	pecify)	
3. Location of Net Contents Inform		4, Size(s) Ret	ail Conta	iner :	5. Lo	cation of Lab On Label On Label		ns panying product	
6. Manner in Which Lebel is Affix	ed to Product	Lithog Paper Stenci	raph glued led	[Oti	Jer				
		——————————————————————————————————————		tion - IV					
1. Contact Point	s directly below fo	r identificatio	n of indiv	vidual to be contacte	d, if nec	essary, to pr	ocess this	appiicstion.)	
Name Ms. Marsha Gray	у		Titte Re	gistration Ma	ınager	•		No. (Include Area Code) 783-2460	
Certifical learning that the statements I have made on this form and I acknowledge that any knowingly false or misleading stated both under applicable law.			nd all attachments thereto are true, accurate and complete.					6. Date Application Pace-ved /Stamped/	
2. Signature Lebra Heator			3. Tide Registration Specialist					41/2	
4. Typed Name Debra J	Hinton		5. Data	April 24,	2000			. 118	

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4):
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Lebeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a
 basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only.

 Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registration that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net-Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manuer in which lauel is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



BOT REVIEWED

In Accordance with PR Notice EG-S Sased on Draft Lobeling Dates

2/16/2000

EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

USE ONLY FOR SEED PRODUCTION OF ALFALFA WITH THE ROUNDUP READY® GENE

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, OTHER THAN ALFALFA WITH THE ROUNDUP READY® GENE, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

NOTE: THIS PRODUCT MAY BE USED FOR CONTROL OF NON-GLYPHOSATE TOLERANT ALFALFA IN PRODUCTION FIELDS OF ALFALFA CONTAINING THE ROUNDUP READY GENE. SEVERE INJURY OR DEATH OF ALFALFA WILL RESULT IF ALFALFA VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

USE RECOMMENDATIONS

This product will control non-glyphosate tolerant alfalfa in seed production fields of alfalfa containing the Roundup Ready

gene. Apply up to 64 fluid ounces of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. Subsequent applications of up to 64 fluid ounces per acre each may be applied, if needed to control non-glyphosate tolerant alfalfa plants.

DO NOT EXCEED A MAXIMUM RATE OF 8 QUARTS OF THIS PRODUCT PER ACRE PER SEASON.

Application timing—This product can be applied to Roundup Ready alfalfa from emergence to harvest.

Treated alfalfa or the resulting seed may not be used for food or feed. Do not feed or graze treated alfalfa. Do not process treated alfalfa or resulting seed for food or feed.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, raturn the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

21137Y1-83

2/16/2000

April 25, 2000

MONSANTO COMPANY 600 13th STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005 Tel.: (202) 783-2460

Fax: (202) 783-2468

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475) Submission of Final Printed Supplemental Label for Use only for Seed Production of Lettuce with the

Roundup Read Gene

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y1-82) for the above use. This supplemental was approved by the EPA February 16, 2000.

If you have any questions regarding this submission, please feel free to contact me through Ms. Marsha Gray or directly at 314-694-9036.

Sincerely,

Debra Hinton

Registration Specialist

Lebec Heaten

cc: M. Gray

Please read instructions on reverse before completing for	n, rom Ap	proved, OMB No. 2070-006	3O			
SEPA Environmental Prot	ection Agency	Registration Amendment X Other	OPP Identifier Number			
Appli	cation for Pesticide - Se	ction I				
1. Company/Product Number 524-475	2. EPA Product M Mr. James	Tompkins	Proposed Classification			
4.Company/Product(Name) Roundup Ultra Herbicide	PM# 25		X None Restricted			
5. Name and Address of Applicant Include ZIP Codel Monsanto Company 600 13th Street, N.W., Suite 6 Washington, DC 20005 Check if this is a new address	(b)(i), my produc to: EPA Reg. No.	eview. In accordance with it is similar or identical in o	composition and labeling			
CHECK II UIS IS A NEW BOOKES	Product Name		······································			
NILLEN TO THE TOTAL THE TOTAL TO AL TO THE T	Section - II					
Amendment - Explain below. Resubmission in response to Agency letter dated	Agency le	ted labels in response to etter dated Application.	2/16/2000			
Notification - Explain below.	Other - E	xplain below.				
Explanation: Use additional page(s) if necessary. {For section I and Section II.)						
	Section - III					
Material This Product Will Be Packaged In:	Occion in		······			
} -	Water Soluble Packaging	7 Transit Contrib				
Child-Resistant Packaging Yes No If "Yes" No. 6	Yes No	2. Type of Contain Metal Plestie Glass Paper	· •			
* Certification must be submitted If "Yes" No. p	- I - I - I - I - I - I - I - I - I - I	·	(Specify)			
3. Location of Net Contents Information 4. Size Label Container	(s) Retail Container	5. Location of Label Direc On Label On Labeling sect	tions ompanying product			
6. Manner in Which Label is Affixed to Product	Lithograph Oti Paper glued Stenciled	101	*******			
	Section - IV					
1. Contact Point	ification of individual to be contacte	d, if necessary, to process th	is application.)			
Name Ms. Marsha Gray	Registration M		one No. (Include Area Code) 2) 783-2460			
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. 6. Date Application Peceived (Stamped)						
2. Signature Selve Henten	3. Title Registration S	pecialist	1120			
4. Typed Name Debra Hinton	5. Date April 24	, 2000	7 7 7			

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- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
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Block A - Check the appropriate action for which you are submitting this form.

SECTION ! - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- Proposed Classification Specify the proposed classification of this product.
- Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only.

 Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registration that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission. Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

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- Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.
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- 2. Type of Retail Container Indicate type of container in which product will be marketed,
- 3. Location of Nat Contents Indicate the location of the net contents information for your product,
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is etteched to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-tou," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



MOT REVIEWED
In Accordance with FR Notice 82-2.
Based on Draft Labeling Dated

2/10/2000

EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

USE ONLY FOR SEED PRODUCTION OF LETTUCE WITH THE ROUNDUP READY® GENE

Keep out of reach of children.

CAUTION!

in case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, OTHER THAN LETTUCE WITH THE ROUNDUP READY® GENE, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

NOTE: THIS PRODUCT MAY BE USED FOR CONTROL OF NON-GLYPHOSATE TOLERANT LETTUCE IN PRODUCTION FIELDS OF LETTUCE CONTAINING THE ROUNDUP READY GENE. SEVERE INJURY OR DEATH OF LETTUCE WILL RESULT IF LETTUCE VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

USE RECOMMENDATIONS

This product will control non-glyphosate tolerant lettuce in seed production fields of lettuce containing the Roundup Ready

gene. Apply up to 64 fluid ounces of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. A second application up to 64 fluid ounces per acre may be applied, if needed to control non-glyphosate tolerant lettuce plants.

DO NOT EXCEED A MAXIMUM RATE OF 4 QUARTS OF THIS PRODUCT PER ACRE PER SEASON.

Application timing—This product can be applied to Roundup Ready lettuce from emergence to harvest.

Treated lettuce may not be used for food or feed. Do not feed or graze treated lettuce. Do not process treated lettuce for food or feed.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

21137Y1-82

1 2/16/2000



April 10, 2000

MONSANTO COMPANY 600 13TH STREET, N.W. SUITE 660 WASHINGTON, D.C. 20005 Tel.: (202) 783-2460

Fax: (202) 783-2468

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)
Submission of Final Printed Supplemental Label for
Tank-mixed with Resource for improved symptoms in

pre-plant applications in com or soybeans

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental tabel for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y1-80) for the above use. This supplemental was approved by the EPA February 16, 2000. The following minor modification has been made:

Under "Specific Mixing Recommendations", we've made ammonium sulfate rates consistent at 8.5 pounds.

If you have any questions regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely.

Debra Hinton

State Registration Specialist

Lebra Henton

cc: R. P. Schneider

Please read instruction	on reverse before completing form.	Form A	pproved. OMB No. 2070-		
o =D4	United States		Registratio	n OPP Identifier Number	
SEPA	Environmental Protection Agency Washington, DC 20460		Amendmei X Other	268126	
	Applicati	ion for Pesticide - S	ection I		
1. Company/Product N	umber 524-475	2. EPA Product M Mr. Jai	Managar mes Tompkins	3. Proposed Classification	
4. Company/Product (Name) Roundup Ultra Herbicide		PM# 25		X None Restricted	
Monsanto Co	eet NW, Suite 660	(b)(i), my produ to:		with FIFRA Section 3(c)(3) in composition and labeling	
Check	if this is a new address	Product Nam	e		
		Section - II	- <u>- </u>		
Amendment - E Resubmission in Notification - Ex	n response to Agency letter dated	Agency Me To	nted labels in response to letter dated of Application. Explain below.	2/16/2000	
Explanation: Use ed	ditional page(s) if necessary. (For secti	on I and Section II.)			
<u></u>		Section - III		<u> </u>	
1. Material This Produc	ct Will Be Packaged In:				
Child-Resistant Packag		Water Soluble Packaging	2. Type of Con	tsiner	
Yes No	Yes No	Yes	Pi	etel astic ass	

(4. Company/Product (Name) Roundup Ultra Herbicide	PM# 25
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street NVI, Suite 660 Washington, DC 20005	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No.
Check if this is a new address	Product Name
	Section - II
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.	Final printed labels in response to Agency letter dated 2/16/2000 "Me Too" Application. Other - Explain below.
Explanation: Use edditional page(s) if necessary. (For section I ar	
S	Section - III
Yes No No No No No Par Unit Packaging wgt. No. par container Product Label Container Container Papar glued Stendiled	On Label On Labeling accompanying product Other
	Section - IV
1. Contact Point IComplete items directly below for identification of Name Dr. Russell P. Schneider	Agricultural Regulation Telephone No. (Include Area Code) Director (202) 783-2460
Certification I certify that the statements I have made on this form and all a I acknowledge that any knowingly false or misleading statement both under applicable law.	nt may be punishable by fine or imprisonment or (Stamped)
2. Signature 3. Ti	Registration Specialist
4. Typed Name Debra Hinton 5. De	April 10, 2000

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Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION I - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3 Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- Name and Address of Applicant⁵. The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (8) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "porteral label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.

 Indicate the also of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions likelinete the location of the use directions for your product.
- 6. Manner in which Libel is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "ma txx," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra is a registered trademark of Monsanto Company. Resource is a registered trademark of Valent USA Corporation

MON REVIEWED

2/16/2007

ROUNDUP ULTRA TANK-MIXED WITH RESOURCE® FOR IMPROVED SYMPTOMS IN PRE-PLANT APPLICATIONS IN CORN OR SOYBEANS.

Keep out of reach of children. CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION", "MIXING",. "ANNUAL WEED RATE TABLE", and "PERENNIAL WEED RATE TABLE" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

RECOMMENDATIONS

This tank-mixture will significantly enhance the speed of symptomology appearance on certain weeds when applied as a pre-plant treatment prior to corn or soybeans. This mixture may be applied prior to planting or emergence of labeled crops. This mixture will not provide residual control of weeds that are un-emerged at the time of treatment.

Combine Roundup Ultra herbicide (32 fluid ounces of product per acre) and Resource® (2.08 fluid ounces per acre) in the spray tank in 10 to 20 gallons of water per acre. For best

results, make applications to actively growing weeds. Ammonium sulfate at 1 to 2 percent by weight or 8.5 to 17 pounds per 100 gallons of water may be added. The addition of 2,4-D or Banvel is not recommended.

SPECIFIC MIXING RECOMMENDATIONS

Option 1

- 1. Fill the spray tank one-half full with water and start the agitation.
- Add Resource at 2,08 fluid ounces per acre and mix thoroughly.
- 3. If desired add ammonium sulfate at 1 to 2 percent by weight or 8.5 to 17 pounds per 100 gallens of spray.
- Add Roundup Ultra herbicide at 32 fluid conces per acre and finish filling the spray tank with water

Option 2

- Fill the spray tank one-half full with water and start the
- 2. If desired add ammonium sulfate at 1 to 2 percent by weight or 8.5 to 17 pounds per 100 gallons of spray.
- Add Roundup Ultra herbicide at 32 fluid ounces per acre.
- Add Resource at 2.08 fluid ounces per acre to the spray tank.

Read and follow the Resource label for additional application instructions and precautions.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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21137Y1-80

2/16/2000

April 10, 2000

Monsanto, Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005 Tel: (202) 783-2460 Fax: (202) 783-2468

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)
Submission of Final Printed Supplemental Label for
Tank-mixed with MON 46598 for improved symptoms in
pre-plant applications in com, soybeans or wheat

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label for Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137Y1-81) for the above use. This supplemental was approved by the EPA February 16, 2000. The following minor modifications have been made:

- In the title we've added "com, soybeans or wheat".
- Under "Specific Mixing Recommendations", we've made ammonium sulfate rates consistent at 8.5 pounds.

If you have any questions regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely,

Debra Hinton

State Registration Specialist

Selve Hynton

cc: R. P. Schneider

Please read instructions on n	everse before completing form.		For	n Approved.	OMB No. 2070-00	só	
	United States				Registration	OPP Identifier Number	
\$EPA	Environmental Protection	on Agei	псу		Amendment	268127	
Washington, DC 20460				×	Other	Z0017;	
	Application	on for F	esticide -	Section	·		
1. Company/Product Number	524-475		2. EPA Produ Mr. Ja	ot Manager ames Tomp		. Proposed Classification	
4. Company/Product (Nama) Roundup	Ultra Herbicide		PM# 25				
5. Name and Address of App Monsanto Compa						with FIFRA Section 3(c)(3) composition and labeling	
	t, N.W., Suite 660		to: EPA Reg.				
Check if this	is a new eddress		Product N	ame	<u></u>		
		Sec	tion - II				
Amendment - Explain	n below.		4. **	•	ls in response to	2/16/2000	
Resubmission in reep	onse to Agency letter dated			ncy letter dat Tao" Applica			
Notification - Explain			Oth	er - Explain be	elow.		
Explanation: Use addition	nal page(s) if necessary. (For section	on I and Sa	ction II.)				
						•	
· · ·		Sect	tion - III				
1. Material This Product Wil	l Be Packaged In:						
Child-Resistant Packaging	Unit Packaging	Water	Soluble Packs	ging	2. Type of Conta	iner .	
Yes*	Yes		Yes		Met		
No	No		No Plastic Glass			· ·	
Certification must be submitted	If "Yes" No. per Unit Packaging wgt, container	if "Yes Packar	"Yes" No. per Peper Ckage wgt container Other (Specify)				
3. Location of Net Contents	Information 4. Size(s) Re	ntail Contei		15.16	ocation of Labet Dire	ections	
	Container	- 1 - 571161			On Label	companying product	
6. Manner in Which Label is	Affixed to Product Litho	graph r glued ciled		Other			
	Stend		tion - IV				
1. Contact Point /Complete	items directly below for identificati			ntacted, if ned	essary, to process	this application.)	
Name Dr. Russell P. Schneider Title Agricultural Regulation Director Telephone I.L. (Include Area Code) (202) 783-2460							
Certification Certification Certification Certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. Lacknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment of (Stamped)							
2. Signature de	bea Henter	3. Title R	egistrati ———	on Speci	alist	409	
4. Typed Name		5. Date					
De bi	ra Hinton		April 1	0, 2000			

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comflents regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

•

SECTION I - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to emend the registration only of a currently registered product (Amandment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "emend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaginy Check the exprepriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "mi-too," varegistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



MOT REVIEWED
In Accordance with PR Notice SD-2
Based on Draft Labeling Dated

2/16/2000

EPA Reg. No. 524-475

Roundup Ultra is a registered trademark of Monsanto Company.

ROUNDUP ULTRA HERBICIDE TANK-MIXED WITH MON 46598 FOR IMPROVED SYMPTOMS IN PRE-PLANT APPLICATIONS IN CORN, SOYBEANS OR WHEAT.

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This tabel must be in the possession of the user at the time of herbicide application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS. EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION", "MIXING", "ANNUAL WEED RATE TABLE", and "PERENNIAL WEED RATE TABLE" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

RECOMMENDATIONS

This tank-mixture will significantly enhance the speed of symptomology appearance on certain weeds when applied as a pre-plant treatment prior to corn, soybeans or wheat. This mixture may be applied prior to planting or emergence of labeled crops. This mixture will not provide residual control of weeds that are un-emerged at the time of treatment.

Combine Roundup Ultra herbicide (32 fluid ounces of product per acre) and MON 46598 (0.144 fluid ounce per acre) in the spray tank in 10 to 20 gallons of water per acre. For best

results, make applications to actively growing weeds. Ammonium sulfate at 1 to 2 percent by weight or 8.5 to 17 pounds per 100 gallons of water may be added. The addition of 2,4-D or Banvel is not recommended.

SPECIFIC MIXING RECOMMENDATIONS

Option 1

- Fill the spray tank one-half full with water and start the agitation.
- Add MON 46598 at 0.144 fluid ounce per acre and mix thoroughly.
- If desired add ammonium sulfate at 1 to 2 percent by weight or 8.5 to 17 pounds per 100 gattens of spray.
- Add Roundup Ultra herbicide at 32 fluid cunces per acre and finish filling the spray tank with water.

Option 2

- Fill the spray tank one-half full with water and start the agitation.
- 2. If desired add ammonium sulfate at 1 to 2 percent by weight or 8.5 to 17 pounds per 100 gallons of spray.
- 3. Add Roundup Ultra herbicide at 32 fluid ounces per acre.
- Prepare a slurry of MON 46598 with water and add to the spray tank.

Read and follow the MON 46598 label for additional application instructions and precautions.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

©2000 MONSANTO COMPANY ST. LOUIS, MISSOURI 63167

21137Y1-81

2/16/2000



MONSANTO COMPANY 600 13th STREET, N.W. **SUITE 660** WASHINGTON, D.C. 20005 TEL: (202) 783-2460

Fax: (202) 783-2468

April 4, 2000

Hand Delivered

Office of Pesticide Programs Document Processing Center (NOTIF) U. S. Environmental Protection Agency Room 266A, Crystal Mall #2 1921 Jefferson Davis Highway Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide

Use on Turfgrass Sod.

Notification of a Supplemental Label

Dear Mr. Tompkins:

Roundup Ultra and Roundup® Pro are two herbicide products which share EPA Registration Number 524-475. Generally, Roundup Ultra is intended for crop uses which Roundup Pro is focused on non-crop uses. In some instances, because of availability or convenience, users may prefer to crossover the uses for application sites that could arguably belong on either label. One such use is in surfgrass sod production which occurs in Section 8.2 of the Roundup Pro label but not on the Roundup Ultra label.

For that reasons, Monsanto is notifying the Agency of the enclosed supplemental label for Roundup Ultra identified by print plate number 21137Y1-78 and dated 1/31/1999. Five copies are provided for your records. The date pertains to the last EPA approved draft of the Roundup Pro booklet text in January, 1999. This label is voluntarily limited to certain counties in Florida.

If you have any questions on this matter please feel free to contact me through Dr. Russell P. Schneider (202-383-2866) or by direct phone (314-694-1582), fax (314-694-4028), or electronic mail at stephen.j.wratten@monsanto.com.

Sincerely,

Stephen J. Wratten

Manager, Registrations

R. P. Schneider

Ultra Turfgrass Sod.doc

Please read instructions on I	everse before completing form.			Form Appro	ved. OMB No. 2	070-0060		
\$EPA	United States Environmental Protect Washington, DC 2	tion Age	ncy		Registra Amend Other		OPP Identifier Number	
	Applicat	tion for F	esticid	e - Secti	on I			
1. Company/Product Numbe	524-475		1	oduct Manaj James To	_	3. Pro	Poposed Classification	
4. Company/Product (Name) Roundup	Ultra Herbicide		PM#	25				
5. Name and Address of Applicant (Include ZIP Code) Monsanto Company 600 13th Street, N.W., Suite 660 Washington, DC 20005				6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No				
Check if this	is a new address		Produc	t Name _		<u> </u>		
		Sect	tion - II					
Amendment - Explain Resubmission in resp Notification - Explain	onse to Agency letter dated	· ·	- 📋 :	Final printed Agency lette 'Me Too" Ap Other - Expla	plication.	e to		
Explanation: Use additional page(s) if necessary. (For section I and Section II.) Notification of a supplemental label for use on turfgrass sod								
		Sect	ion - III					
1. Material This Product Wil	l Be Packaged In:							
Child-Resistant Packaging Yes* No * Certification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt. Vo. per Contains	it Yes		No. per container	2. Type of	Metal Plastic Glass Paper Other (S	pecify)	
3. Location of Net Contents Label C	Information 4. Size(s) I	Retail Contain	ner		5. Location of La On Labe	 al	ns panying product	
6. Manner in Which Label is	Pap	ograph er glued noiled		Other				
		Sect	ion - IV					
1. Contact Point (Complete	items directly below for identifica	tion of indivi	idual to ba	contacted, h	f necessary, to p	rocess this	application.)	
Dr. Russell P	. Schneider		ricultu rector	ural Reg	ulation		No. (include Area Code) 783-2460	
	ments I have made on this form a ly knowingly false or misleading s						6. Date Application Passived {Stamped}	
2. Signeture Stape 1 Rubb 3. Title Manager, Registrations					strations		1124	
4. Typed Name Steph	en J. Wratten, Ph.D.	5. Date	Ā	pril 4,	2000 .		:::H?	
CDA Ent. 0530 1 /De. 0 04	Previous aditions are obsolete				EDA CII. Can			

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comflents regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use raregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6 Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION ! - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (8) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency latter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed,

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types.

 Indicate the size of the individual packats and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Cantants Indicate the location of the net contents information for your product.
- 4. Sixn(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 5. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Content Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-ton," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra is a registered trademark of Monsanto Company.

FOR USE ON TURFGRASS SOD PRODUCTION IN FLORIDA ONLY.

This supplemental label may only be used in the following counties of Florida: Marion, Osceola, Sumter, Palm Beach, Okeechobee, Hendry, Desoto, Manatee, Polk, Orange, Brevard, Dade, Martin, Highlands, Lee, Charlette, Sarasota, St. Johns, Hillsborough, Pasco, Volusia, Broward, St. Lucia, Glades, Collier, Hardee, Indian River, and Lake.

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of herbicide application.

Follow all applicable directions, restrictions, and precautions on the product label.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra herbicide for essential product performance information.

USE INSTRUCTIONS

This product controls most existing vegetation prior to renovating turigrass areas or establishing turigrass grown for seed or sod. For maximum control of existing vegetation, delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs. For warm-season grasses such as bermudagrass, summer or fall applications provide the best control.

Desirable turfgrasses may be planted following the above procedures.

Hand-held equipment may be used for spot treatment of unwanted vegetation growing in existing turfgrass. Broadcast or hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

Do not feed or graze turfgrass grown for seed or sod production for 8 weeks following application.

Refer to the "ANNUAL WEED RATE TABLES" of the label booklet for Roundup Ultra herbicide for rates to use on the weeds that are present.

Read the "LIMIT OF WARRANTY AND UABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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Monsanto Company 600 13th Street, N.W. Suite 660 Washington, D.C. 20005 Tel: (202) 783-2460

Fax: (202) 783-2468

March 30, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mail #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Label Booklet

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed label Roundup Ultra Herbicide (EPA Reg. No. 524-475, Print Plate No. 21137X6-2/53 dated 2000-1). This label text is based on the stamped label of January 13, 1999 submitted to the EPA August 30, 1999. The minor changes are:

- New print plate number assigned and it has moved from bottom left to top center.
- The new Ultra and TranSorb logos are position different.

If you have any questions regarding this submission, please feel free to contact me through Dr. Rusself P. Schneider or directly at 314-694-9036.

Sincerely,

Debrá Hinton

Registration Specialist

elec Henter

cc: R. P. Schneider

SEPA Environmen		Registration Amendment 268136				
	Application fo	r Pesticide - Sec	tion I			
1. Company/Product Number 524-4	75	2. EPA Product Mar		3. Proposed Classification		
4. Company/Product (Name) Roundup Ultra Herb	icide	PM# 25		X None Restricted		
5. Name and Address of Applicant <i>(Include Zi</i> Monsanto Company 600 13th Street, N.W., St Washington, DC 20005	1 '	l Table				
Check if this is a new address	;	Product Name				
	- Se	ection - II				
Amendment - Explain below. Resubmission in response to Agency le Notification - Explain below. Explanation: Use additional page(s) if nece		Agency let	d Isbels in response to ter dated Application. Plain below.	¹ 1/13/1999		
			<u>.</u> .			
	Se	ction - III				
1. Material This Product Will Be Packaged In: Child-Resistant Packaging Yes No * Certification must be submitted 3. Location of Net Contents Information	No. per If "	er Soluble Packaging Yes No Yes** No. per Kege wgt containe	2. Type of C	Metal Plastic Glass Paper Other (Specify)		
Label Container	4. Size(s) Retail Con	tainer	On Label	g accompanying product		
6. Manner in Which Label is Affixed to Produc	t Lithograph Paper glued Stenciled	Othe	r			
		ction - IV		<u> </u>		
1. Contact Point (Complete items directly beli				ess this application.)		
Dr. Russell P. Schneider	Title	Agricultural Re Director		elephone No. (Include Area Code) 202) 783-2460		

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complets. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or

3. Title

5. Date

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

Debra Hinton

both under applicable law.

2. Signature

4, Typed Name

White - EPA File Copy (original)

Registration Specialist

March 30, 2000

Yellow - Applicant Copy

(202) 783-2460

6. Date Application

-(Stamped)

Received

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour personnes, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send completing regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2135), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, emendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). Iff not exempted by 40 CFR 152.81 (b) (4));
- 2. Confidential Statement of Formula (EPA Form 8570-4):
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling:
- 5. Three copies of any data submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in left registration matters. The name and complete mailing address of such an agent must accompany this application.
- 6. Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed lebeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration of applicable amendments.

- 1. Type of Packaging Chack the appropriate block if your product will be packaged in the indicated packaging types.

 Indicate the size of the individual parkets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Net Contents In licets the location of the net contents information for your product.
- 4. Size(s) of Retay Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 5. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-tco," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

Man in a desired

In Accordance with PR Notice 55 Fa Based on Brafe Labeling Dates



Complete Directions for Use

EPA Reg. No. 524-475

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPEGIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Roundup Ultra and Roundup Ready are registered trade-marks, TransSorb, Monsanto and the Vine symbol are trademarks of Monsanto Company.

2000-1

21137X6-2/53



Complete Directions for Use

EPA Reg. No. 524-475

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Roundup Ultra and Roundup Ready are registered trade-marks, TransSorb, Monsanto and the Vine symbol are trade-marks of Monsanto Company.

2000-1

Read the entire label before using this product.

Use only according to label instructions.

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of the label before buying or using. If terms are

THIS IS AN END-USE PRODUCT, MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS. not acceptable, return at once unopened.

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1.0 INGREDIENTS

ACTIVE INGREDIENT:	
Glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt	41,0%
OTHER INGREDIENTS:	. 59.0%
OTHER IMPREDICTATOR	100.0%

*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

This product is protected by U.S. Patent No. 4,405,531 and by U.S. patent No. 5,703,015. Other patents pending. No license granted under any non-U.S. patent(s).

2.0 IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE.

1-800-332-3111

 IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, OR FOR MEDICAL ASSISTANCE, CALL COLLECT, DAY OR NIGHT, (314)-694-4000

3.0 PRECAUTIONARY STATEMENTS

3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

CAUSES EYE IRRITATION.

Avoid contact with eyes or clothing.

FIRST AID: IF IN EYES, flush with plenty of water. Get medical attention if irritation persists.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Cell a veterinarian if symptoms persist for more than 24 hours.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks. Follow manutacturer's instructions for cleaning/maintaining PPE (Personal Protective Equipment). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements fisted in Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Satety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside.
 Then wash thoroughly and put on clean clothing.

3.2 Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

3.3 Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS

OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. On not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that Involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves, shoes plus socks

PRECAUTIONARY STATEMENTS

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PRECAUTIONARY STATEMENTS 8

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 GFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep people and pets off treated areas until spray solution has dried to prevent transfer of this product onto desirable vegetation.

1.0 STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

See container label for STORAGE AND DISPOSAL instructions.

5.0 GENERAL INFORMATION (How this product works)

Product Description: This product is a postemergent, systemic herbicide with no soil residual activity. It is generally non-selective and gives broad spectrum control of many annual weeds, perennial weeds, woody brush and trees, it is formulated as a water-soluble liquid. It may be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water or other carriers according to label instructions.

Do not add surfactants, additives containing surfactants, buffering agents or pH adjusting agents to the spray solution when Roundup Ultra herbicide is the only pesticide used. Ammonium sulfate, drift control additives, or dyes and colorants may be used. See the "MIXING" section of this label for instructions.

Time to Symploms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms. Visible effects are a gradual willing and yellowing of the plant which advances to complete browning of above-ground growth and deterioration of underground plant parts.

Stage of Waeds: Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the annual, perennial, woody brush and trees rate lables for recommendations for specific weeds.

Always use the higher rate of this product per acre within the recommended range when weed growth is heavy or dense or weeds are growing in an undisturbed (noncutivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

Cultural Considerations: Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Rainlastness: Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate control.

Spray Coverage: For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

GENERAL INFORMATION

Mode of Action: The active ingredient in this product inhibits an enzyme found only in plants and microorganisms that is essential to formation of specific amino acids.

No Soil Activity: Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow.

When this product comes in contact with soil, it is bound to soil particles. Under recommended use situations, once this product is bound to soil particles, it is not available for plant uptake and will not harm off-site vegetation where roots grow into the treated area or if the soil is transported offsite. The strong affinity of this product to soil particles prevents this product from leaching out of the soil profile and entering ground water.

Biological Degradation: Degradation of this product is primarily a biological process carried out by soil microbes.

Votatisity: Roundup Ultra herbicide is non-volatile. Therefore, it cannot move as a vapor after application to affect nearby vegetation.

Toxicology Testing: Exposure to workers and other applicators generally is expected to pose minimal risks based on results of short-term toxicity studies. Glyphosate has been thoroughly tested and determined not to cause cancer or other adverse tong-term health effects.

Tank Mixing: This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this labeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

Annual Maximum Use Rate: Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts of this product per acre per year.

For noncrop uses, the combined total of all treatments must not exceed 10.6 quarts of this product per acre per year,

ATTENTION

AVOID CONTACT OF HERBICIDE WITH FOLIAGE. GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or tine particles (mist) which are likely to drift. AVOID APPLYING AT EXCES-

GENERAL INFORMATION

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MIXING 12

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

6.0 MIXING

Clean sprayer parts immediately after using this product by thoroughly flushing with water,

NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS VISIBLY MUDDY WATER OR WATER FROM PONDS AND DITCHES THAT IS NOT CLEAR.

6.1 Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the recommended amount of this product near the end of the filling process and mix well. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations. During mixing and application, foarning of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

6.2 Tank Mixing Procedure

Mix labeled tank mixtures of this product with water as follows:

- Place a 20 to 35 mesh screen or wetting basket over filling port.
- Through the screen, fill the spray tank one-half full with water and start agitation.
- If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
- If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
- If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
- Continue filling the spray tank with water and add the required amount of this product near the end of the filling process.
- Add individual formulations to the spray tank as follows: wentable powder, flowable, emulsifiable concentrate, drift control additive and water soluble liquid.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

Refer to the "TANK MIXING" section of "GENERAL INFOR-MATION" for additional precautions.

6.3 Mixing for Hand-Held Sprayers

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

MIXING

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MIXING

Spray Solution

Desired		Am	to Invol	Roundut	Ultra	-
Volume	14%	1%	13%	2%	5%	10%
1 Gal	35 OZ	11/3 DZ	2 oz	2¾ oz	6½ oz	13 oz
25 Gal	1 pt	1 gi	1½ qi	2 qt	5 qt	10 qt
100 Gal	2 qt	1 gal	1½ gal	2 gal	5 gal	10 gal

2 tablespoons = 1 fluid ounce

For use in knapsack sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

6.4 Ammonium Sulfate

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product, particularly when tank mixed with certain residual herbicides on annual and perennial weeds. The equivalent rate of ammonium sulfate in a liquid formulation may also be used. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

NOTE: When using ammonium sulfate, apply this product at rates recommended in this label. Lower rates will result in reduced performance.

6.5 Colorants or Dyes

Agriculturally-approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions. Use colorants or dyes according to the manufacturer's recommendations.

6.6 Drift Control Additives

Drift control additives may be used with all equipment types, except wiper applicators, sponge bars and CDA equipment. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

7.0 APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.

This product may be applied with the following application equipment:

Aerial-Fixed Wing and Helicopter

Ground Broadcast Spray—Boom or boomless systems, pull-type sprayer, floaters, pick-up sprayers, spray coupes and other ground broadcast equipment.

Hand-Held and High-Volume Spray Equipment—Knapsack and backpack sprayers, pump-up pressure sprayers, hand-guns, handwards, mistblowers, lances and other hand-held and motorized spray equipment used to direct the spray onto weed foliage.

*This product is not registered in California or Arizona for use in mistblowers.

Selective Equipment—Recirculating sprayers, shielded and hooded sprayers, wiper applicators and sponge bars.

Injection Systems—Aerial or ground injection sprayers.

Controlled Droplet Applicator (CDA)—Hand-held or boommounted applicators which produce a spray consisting of a narrow range of droplet sizes.

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.

APPLICATION EQUIPMENT

7.1 Aerial Equipment

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL

Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. Unless otherwise specified, do not exceed 1 quart per acre. Aerial applications of this product may be made in annual cropping conventional tillage systems, fallow and reduced tillage systems and preharvest applications. Refer to the individual use area sections of this label for recommended volumes, application rates and further instructions.

FOR AERIAL APPLICATION IN CALIFORNIA OR ARKANSAS, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS. FOR AERIAL APPLICATIONS, CONSULT WITH STATE OR LOCAL AUTHORITIES REGARDING ANY ADDITIONAL REQUIREMENTS FOR AERIAL TREATMENTS. Banvel tank mixtures may not be applied by air in California.

Avoid direct application to any body of water.

AVOID DRIFT—DO NOT APPLY DURING LOW-LEVEL INVERSION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT, DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Ensure uniform application—To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE. The maintenance of an organic coating (paint), which meets aerospace specification MIL-C-38413, may prevent corrosion.

7.2 Ground Broadcast Equipment

Use the recommended rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droptets.

7.3 Hand-Held and High-Volume Equipment

Apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only.

For control of weeds listed in the annual weeds rate tables, apply a 0.5 percent solution of this product to weeds less than 6 inches in height or runner length. Apply prior to seed-head formation in grass or bud formation in broadleaf weeds. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1 percent solution.

For best results, use a 2 percent solution on harder-to-control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

APPLICATION EQUIPMENT

When using application methods which result in less than complete coverage, use a 5 percent solution for annual and perennial weeds and a 5 to 10 percent solution for woody brush and trees.

7.4 Selective Equipment

This product may be applied through recirculating spray systems, shielded applicators, hooded sprayers, wiper applicators or sponge bars after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label and only when specifically recommended in cropping systems.

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation, while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded or hooded applicator directs the herbicide solution onto weeds, while shielding desirable vegetation from the herbicide.

A wiper or sponge applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETA-

Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators used above desirable vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation. Oroplets, mist, toam, or splatter of the herbicide solution settling on desirable vegetation may result in discoloration, stunting or destruction.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by

The herbicide solution will not be affected. This may occur in dense clumps, severe infestations or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

Shielded and hooded applicators

Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.

A hooded sprayer is a type of shielded applicator. The spray pattern is completely enclosed on the top and all 4 sides by a hood, thereby shielding the crop from the spray solution. This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. If the hoods are raised, spray particles may escape and come into contact with the crop, causing damage or destruction of the crop. The spray hoods must be operated on the ground or skimming across the ground. Tractor speed must be adjusted to avoid bouncing of the spray hoods. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

Wiper applicators and sponge bars

Wiper applicators are devices that physically wipe appropriate amounts of this product directly onto the weed.

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if 2 applications are made in opposite directions.

Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that, on sloping

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APPLICATION EQUIPMENT 20

ground, the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

Do not use wiper equipment when weeds are wet.

Mix only the amount of solution to be used during a 1-day period, as reduced activity may result from use of lettover solutions. Clean wiper parts immediately after using this product by thoroughly flushing with water

Do not add surfactant to the herbicide solution.

For Rape or Sponge Wick Applicators—Mix 1 gallon of this product in 2 gallons of water to prepare a 33 percent solution. Apply this solution to weeds listed in this section.

For Porous-Plastic Applicators—Solutions ranging from 33 to 100 percent of this product in water may be used in porous-plastic wiper applicators.

When applied as recommended, this product CONTROLS the

tollowing weeds:

Corn, volunteer Panicum, Texas Rye, common

: Sicklepod Spanishneedles Glarbur, bristly

Shaftercane When applied as recommended, this product SUPPRESSES

the following viceds:

Beggarweed, Florida Bermudagrass Dogbane, hemp Dogfennei Guineagrass Johnsongrass Milkweed Nightshade, silverteaf

Pigweed, redroot

Ragweed, common Ragweed, giant Smutgrass Sunflower Thistle, Canada Thistle, musk Vaseygrass Velvelleaf

7.5 Injection Systems

This product may be used in aerial or ground injection spray systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. Do not mix this product with the concentrate of other products when using

.6 CDA Equipment

The rate of this product applied per acre by vehicle-mounted COA equipment must not be less than the amount recommended in this label when applied by conventional-broadcast equipment. For vehicle-mounted CDA equipment, apply 3 to 15 gallons of water per acre.

For the control of annual weeds with hand-held CDA units, apply a 20 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 mph (1 quart per acre). For the control of perennial weeds, apply a 20 to 40 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 mph (2 to 4 quarts per acre).

Controlled droplet application equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or destruction may result.

8.0 CROPS (Alphabetical)

This section is organized alphabetically by crop category. There may be several labeled crops listed in a crop dategory.

Unless otherwise specified, applications may be made to control any weeds listed in the annual, perennial and woody brush tables. Also refer to the "SELECTIVE EQUIPMENT

For any crop not listed in this "CROPS" section, applications must be made at least 30 days prior to planting.

For broadcast postemergent treatments, do not harvest or feed treated vegetation for 8 weeks following application, unless otherwise specified.

PRECAUTIONS, RESTRICTIONS: When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product, which could cause crop injury, from the plastic prior to transplanting. Residues can be removed by a single 0.5 inch application of water, either by natural rainfall or via a sprinkler system. Applications made at emergence will result in injury or death to emerged seedlings.

8.1 Alfalfa, Clover, and Other Forage Legumes

LABELED CROPS: Alfalfa, clover, kudzu, lespedeza, lupin, sainfoin, trefoil, velvet bean, vetch, crown vetch, milk vetch

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, spot treatment (alfalfa and clover only), wiper applicators (alfalfa and clover only), renovation, preharvest.

Preplant, Preemergence and At-planting

USE INSTRUCTIONS: This product may be applied before, during or after planting crops listed in this section. Applications must be made prior to emergence of the crop.

PRECAUTIONS, RESTRICTIONS: Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

Preharvest (Alfalfa only)

USE INSTRUCTIONS: This product may be used in declining alfalfa stands or any stand of alfalfa where crop destruction is acceptable. This application will severely injure or destroy the stand of alfalfa. This product will control annual and perennial weeds, including quackgrass, when applied prior

to the harvest of alialfa. The treated crop and weeds can be harvested and fed to livestock after 36 hours. Allow a minimum of 36 hours between application and harvest. Applications may be made at any time of the year. Make only one application to an existing stand of alfalfa per year. For control of quackgrass, apply in the spring, late summer or fall when quackgrass is actively growing. Treatments for quackgrass must be followed by deep tillage for complete control.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1 quart of this product per acre as a preharvest treatment. Do not use for alfalfa grown for seed, as a reduction in germina-

Spot treatment or Wiper applications (Alfalfa and Clover only) USE INSTRUCTIONS: This product may be applied as a spot

treatment in alfalfa or clover. This product may be applied with wiper applicators to control or suppress the weeds listed under "WIPER APPLICATORS" in the "SELECTIVE EOUIPMENT" section of this label. Applications may be made in the same area at 30-day intervals.

PRECAUTIONS, RESTRICTIONS: For spot treatment and wiper applications, apply in areas where the movement of domestic livestock can be controlled. No more than onetenth of any acre should be treated at one time. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

Renovation

USE INSTRUCTIONS: This product may be applied as a broadcast spray to existing stands of attalfa, clover, and other labeled forage legumes. Labeled crops may be planted

PRECAUTIONS, RESTRICTIONS: Remove domestic livestock before application and wait 8 weeks after application before

Asparagus

TYPES OF APPLICATIONS: Preplant, preemergence, spot treatment, postharvest

Preplant, Preemergence

USE INSTRUCTIONS: This product may be applied prior to emergence of asparagus.

PRECAUTIONS, RESTRICTIONS: Do not apply within a week before the first spears emerge.

Spot treatment

USE INSTRUCTIONS: This product may be applied immediately after cutting, but prior to the emergence of new spears. PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. Do not harvest within 5 days of freatment.

Postharvest

USE INSTRUCTIONS: This product may be applied after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as a directed or shielded spray in order to avoid contact of the spray with leins, stems or spears.

PRECAUTIONS, RESTRICTIONS: Direct contact of the spray with the asparagus may result in serious crop injury. Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.

8.3 Cereal Crops

LABELED CROPS: Barley, Buckwheat, Millet (Pearl, Proso). Dats, Rice, Rye, Teosinte, Triticate, Wheat (All), Wild rice

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, spot treatment (except rice), post-harvest, preharvest (wheat only), wiper applicators (wheat only)

Do not treat rice lields or levees when the field contains

Preplant, Preemergence and At-planting

USE INSTRUCTIONS. This product may be applied before. during or after planting of cereal crops. Applications must be made prior to emergence of the crop.

Spot treatment (except rice)

USE INSTRUCTIONS: This product may be applied as a spot freatment in cereal crops. Apply this product before heading

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

USE INSTRUCTIONS: This product may be applied after harvest of cereal crops. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-0 or dicamba may be used.

PRECAUTIONS, RESTRICTIONS: For any crop not listed on this label, applications must be made at least 30 days prior to planting the next crop. Do not harvest or feed treated vegetation for 8 weeks following application.

Preharvest (wheat only)

USE INSTRUCTIONS. This product provides weed control when applied prior to harvest of wheat. Apply after the harddough stage of grain (30% or less grain moisture) and at

least 7 days prior to harvest. Wheat stubble may be grazed immediately after harvest.

This product may be applied using either aerial or ground spray equipment. For ground applications, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1 quart of this product per acre. Do not apply to wheat grown for seed, as a reduction in germination or vigor may occur.

Wiper applications (wheat only)

USE INSTRUCTIONS: Wiper applications may be used in wheat. To control common rye or cereal rye, apply after the weeds have headed and achieved maximum growth, when the tye is at least 6 inches above the wheat crop

PRECAUTIONS, RESTRICTIONS: Allow at least 35 days between application and harvest. Do not use roller applicators.

Red Rice control prior to planting rice

USE INSTRUCTIONS: Apply 1.5 quarts of this product in 5 to 10 gallons of water per acre. Flush fields prior to application to obtain uniform nermination and stand of red rice. Make application when the majority of the red rice plants are in the 2-leaf stage and no more than 4 inches tall. Red rice plants with less than 2 true leaves may be only partially controlled.

PRECAUTIONS, RESTRICTIONS: Avoid spraying during low humidity conditions, as reduced control may result. Oo not treat rice fields or levees when the fields contain water. Do not re-flood treated fields for 8 days following application.

8.4 Christmas Trees

TYPES OF APPLICATIONS: Post-directed, spot treatment, site preparation

Post-directed, Spot treatment

USE INSTRUCTIONS: This product may be used as a postdirected spray and spot treatment around established Christmas trees.

PRECAUTIONS RESTRICTIONS Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN CHRISTMAS TREES. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established Christmas trees.

Site preparation

USE INSTRUCTIONS: This product may be used prior to

PRECAUTIONS, RESTRICTIONS: Precautions should be taken to protect nontarget plants during site preparation

8.5 Citrus Crops

LABELED CROPS: Calamondin, Chironia, Citron, Citrus Hybrids, Grapetruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (All), Pummelo, Tangelo, Tangor

TYPES OF APPLICATIONS. General weed control, middles (between rows of trees), strips (in row of trees), selective

NOTE: FOR GENERAL USE DIRECTIONS, SEE THE "TREE. NUT AND VINE (GENERAL)" SECTION. THE FOLLOWING DIRECTIONS ARE SPECIFIC TO CITRUS CROPS.

Florida and Texas only: For burndown or control of the weeds listed below, apply the recommended rates of this product in 3 to 30 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre.

For goativeed, apply 2 to 3 quarts of this product per acre. Apply in 20 to 30 gallons of water per acre when plants are actively growing. Use 2 quarts per acre when plants are less than 8 inches tall and 3 quarts per acre when plants are greater than 8 inches tall. If goalweed is greater than 8 inches tall, the addition of KrovarTM II or KarmexTM may improve control. Refer to the individual product labels for

CROP

specific crops, rates, geographic restrictions and precautionary statements.

Perennial weeds:

S=Suppression	B≠Burndo)\/N			
PC=Partial Control	C±Contro	1			
Weed	Round	lup Ullra	Hate Pe	r Acre	_
Species	1 01	2 91	3 01	5 QT	
Bermudagrass	8		PC	C	_
Guineagrass					
Texas and Florida Ridg	je B	Ç	С	C	
Florida Flatwoods	<u>:</u>	₿	C ·	С	
Paragrass	В	С	С	C	
Torpedomass	S		PC	С	

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 1 day between last application and harvest.

6 Conservation Reserve Program (CRP)

TYPES OF APPLICATIONS: Renovation (rotating out of CRP), site preparation, postemergence, wiper

Rotating out of CRP, Site preparation

USE INSTRUCTIONS: This product may be used to prepare CRP land for crop production.

Postemergence, Wiper

DSE INSTRUCTIONS: This product may be used to suppress competitive growth and seed production of undesirable vegetation in CRP acres. Such applications may be made with wiper application equipment or as a broadcast or spot freatment to dormant CRP grasses. For selective applications with broadcast spray equipment, apply 12 to 16 fluid ounces of this product per acre in early spring before desirable CRP grasses, such as crested and tall wheatgrass, break dormancy

and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy. PRECAUTIONS, RESTRICTIONS: Some stunting of CRP perennial grasses will occur it broadcast applications are made when plants are not dormant

8.7 Corn

TYPES OF CORN: Field corn, seed corn, sweet corn and

TYPES OF APPLICATIONS: Preplant, preemergence, atplanting, hooded sprayers, spot treatment, preharvest, post-

Preplant, Preemergence and At-planting

USE INSTRUCTIONS. This product may be applied before. during or after planting corn. Applications must be made prior to emergence of the crop.

The following tank mixtures may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

Apply these tank mixtures in 10 to 20 pallons of water or 10 to 60 gallons of nitrogen solution per acre. For Southern states, do not apply in nitrogen solutions to tough-to-control grasses such as barnyardgrass, fall panicum, broadleaf siggrasses such as beingarograss, lan panetum, produced sig-nalgrass, annual ryegrass, and any perennial weeds. See the map in the Annual Weeds section of this label for areas

ATRAZINE BANVEL **BICEP™** BICEP II BLADEX/CYANAZINE BROADSTRIKEN BULLETO DUALTM DUAL II

EXTRAZINETM FRONTIERM GUARDSMANIN HARNESS® HARNESS XTRA HARNESS XTRA 5.6L LARIATO LASSO#/ALACHLOR LINEXIM

LOROXIM MARKSMANTH MICRO TECHO PARTNERS PROWLIM SIMAZINE SURPASSIM SURPASS 100 TOPNOTCHIM

For improved burndown, this product may be tank mixed with 2,4-D or dicamba.

Annual weeds---For difficult-to-control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches tall, and 2 to 3 pints when weeds are over 6 inches tall.

PRECAUTIONS, RESTRICTIONS: Applications of 2,4-D or 1 dicamba must be made at least 7 days prior to planting corn.

The tank mix recommendations in this section are not registered in California.

Hooded Sprayers

USE INSTRUCTIONS: This product may be used through hooded sprayers for weed control between the rows of corn. Only hooded sprayers that completely enclose the spray pattern may be used.

When applying to corn that is grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows.

Follow these requirements:

- . The spray hoods must be operated on the ground or skimming across the ground.
- · Do not apply more than 1 quart of this product per acre per
- · Corn must be at least 12 inches tall, measured without extending leaves.
- Leave at least an 8-inch untreated strip over the drill row. For example, if the crop row width is 38 inches, the maximum width of the spray hood should be 30 inches.
- Maximum tractor speed: 5 mph.

Maximum wind speed: 10 mph.

Use low-drift nozzles.

Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop. Do not apply this product when the leaves of the crop are growing in direct contact with weeds to be treated. Droplets, mist. foam or splatter of the herbicide solution may contact the crop and cause discoloration, stunting or destruction.

PRECAUTIONS, RESTRICTIONS: Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Do not graze or feed corn forage or fodder following applications of this product through hooded sprayers. Do not apply more than 3 quarts of this product per acre per year for hooded sprayer applications.

Spot treatment

USE INSTRUCTIONS: For spot treatments, apply this product prior to silking of corn.

PRECAUTIONS, RESTRICTIONS; Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in the freated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

Preharvest

USE INSTRUCTIONS: Make applications at 35 percent grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed). For ground applications, apply up to 3 quarts of this product per acre. For aerial applications, apply up to 1 quart of this product per acre.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and harvest. It is not recommended that corn grown for seed be treated because a reduction in germination or vigor may result.

Post-harvest

USE INSTRUCTIONS: This product may be applied after nar-

vest of corn. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. PRECAUTIONS, RESTRICTIONS: Do not harvest or feed treated vegetation for 8 weeks following application.

8.8 Cotton

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, hooded sprayer, selective equipment, spot treatment, preharvest

Preplant, Preemergence, and At-planting

USE INSTRUCTIONS: This product may be applied before, during or after planting cotton. Applications must be made prior to emergence of the crop.

Hooded sprayer, Selective equipment USE INSTRUCTIONS: This product may be applied through hooded sprayers, recirculating sprayers, shielded applicators or wiper applicators in cotton. Allow at least 7 days between

PRECAUTIONS, RESTRICTIONS: See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

USE INSTRUCTIONS: For spot treatments, apply this product prior to boll opening of cotton.

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

USE INSTRUCTIONS: This product provides weed control and cotton regrowth inhibition when applied prior to harvest of cotton. For weed control, apply at rates given in the annual, perennial and woody brush tables. Apply 1 pint to 2

quarts of this product per acre for cotton regrowth inhibition. Allow a minimum of 7 days between application and harvest of cotton.

This product may be applied using either aerial or ground spray equipment. For ground applications, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre. Apply after sufficient bolls have developed to produce the desired yield of cotton. Applications made prior to this time could affect maximum yield potential.

This product may be tank mixed with DEFTM 6. FolexTM, or PrepTM to provide additional enhancement of cotton leaf drop. PRECAUTIONS, RESTRICTIONS: Do not feed or graze treated cotton forage or hay following preharvest applica-tions. DO NOT APPLY MORE THAN 1 QUART OF THIS PRODUCT PER ACRE BY AIR. Do not apply more than 2 quarts of this product per acre by ground. Do not apply to cotton grown for seed, as a reduction in germination or vigor may occur.

.9 Fallow Systems

TYPES OF APPLICATIONS: Chemical fallow, preplant fallow beds, aid-to-tillage

Chemical fallow

USE INSTRUCTIONS: This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. For any crop not listed on this label, applications must be made at least 30 days prior to planting. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields. Ground or aerial application equipment may be used. Tank mixtures with 2,4-D and dicamba may be used.

PRECAUTIONS, RESTRICTIONS: DO NOT APPLY BANVEL TANK MIXTURES BY AIR IN CALIFORNIA.

CROPS

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if Banvel is applied within 45 days of planting.

Preplant fallow beds

HISE INSTRUCTIONS: This product may be applied to fallow beds prior to planting or emergence of any crop listed on this label. For any crop not listed on this label, applications must be made at least 30 days prior to planting. This product will control weeds listed in the annual, perennial and woody brush tables.

In addition, 12 fluid ounces of this product plus 2 to 3 oz of Goalin 2XL per acre will control the following weeds with the maximum height or length indicated: 3" -- common cheeseweed, chickweed, groundsel; 6" — London rackel, shepherd's-ourse.

16 fluid ounces of this product plus 2 to 3 oz of Goal 2XL per acre will control the following weeds with the maximum height or length indicated: 6" — common cheeseweed, groundsel, marestail (Conyza canadensis), 12" — chickweed, London rocket, shepherd's-purse.

Aid-to-tillage

USE INSTRUCTIONS: This product may be used in conjunction with tillage practices in fallow systems or preplant to labeled crops to control downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 8 fluid ounces of this product in 3 to 10 gallons of water per acre. Make applications before weeds are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage.

PRECAUTIONS, RESTRICTIONS: Tank mixtures with residual herbicides may result in reduced performance.

8.10 Grain Sorghum (Milo)

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, spot treatment, wiper applicators, hooded sprayers, pre-

Preplant, Preemergence, At-planting

USE INSTRUCTIONS: This product may be applied before, during or after planting grain sorghum. Applications must be made prior to emergence of the crop.

Spot treatment and Wiper applications

USE INSTRUCTIONS: This product may be applied as a spot treatment in grain sorghum. Make spot treatments before heading of milo. This product may be applied with wiper applicators to control or suppress the weeds listed under "WIPER APPLICATORS" in the "SELECTIVE EQUIPMENT" section of this label.

PRECAUTIONS, RESTRICTIONS: For spot treatment, do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

For wiper applicators, allow at least 40 days between application and harvest. Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.

Hooded Sprayers

USE INSTRUCTIONS: This product may be used through hooded sprayers for weed control between the rows of mile. Only hooded sprayers that completely enclose the spray pat-

When applying to mile that is grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows.

- The spray hoods must be operated on the ground or skim-Follow these requirements:
- · Do not apply more than 1 quart of this product per acre per
- · Milo must be at least 12 inches tall, measured without extending leaves. Treat before mile sends tillers between the drill rows. It such tillers are contacted with the spray
- solution, the main plant may be killed. · Leave at least an 8-inch untreated strip over the drill row. For example, it the crop row width is 38 inches, the maximum width of the spray hood should be 30 inches.
- Maximum tractor speed: 5 mph.
- Maximum wind speed: 10 mph.

Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop. Do not apply this product when the leaves of the crop are growing in direct contact with weeds to be treated. Droplets, mist, toam or splatter of the herbicide solution may contact the crop and cause discoloration, stunting or destruction.

PRECAUTIONS, RESTRICTIONS: Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole imenseu may cause usingle such usingly shall be mile for-responsibility of the applicator. Do not graze or feed mile forage or fodder following applications of this product through age or rooter ronowing approcauties of this product integral hooded sprayers. Do not apply more than 3 quarts of this product per acre per year for hooded sprayer applications.

USE INSTRUCTIONS: Make applications at 30% grain moispreharvest

PRECAUTIONS, RESTRICTIONS. Do not apply more than 2 ture or less. quarts of this product per acre. Allow a minimum of 7 days between application and harvest of sorghum, it is not recommended that sorghum grown for seed be treated, as a

reduction in germination or vigor may occur. The use of this product for preharvest grain sorghum (Milo) is not registered in California.

USE INSTRUCTIONS: This product may be applied after harvest of grain sorghum. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-0 or dicamba may

This product may be applied to grain sorghum (milo) stubble following harvest to suppress or control regrowth. Apply 1 quart of this product per acre for control, or 1.5 pints of this product per acre for suppression.

PRECAUTIONS, RESTRICTIONS: Do not harvest or feed treated vegetation for 8 weeks following application.

8.11 Grass Seed Production

TYPES OF APPLICATIONS: Preplant, preemergence, renovation, site preparation, shielded sprayers, wiper applicators, spot treatments, creating rows in annual ryegrass.

USE INSTRUCTIONS: This product may be applied before. during or after planting or renovation of turf or forage grass areas grown for seed production. Applications MUST be made prior to the emergence of the crop to avoid crop injury. For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall applications provide best control.

PRECAUTIONS, RESTRICTIONS: Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts.

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Do not feed or graze treated areas for 8 weeks following application.

Shielded sprayers

USE INSTRUCTIONS: Apply 1-3 quarts of this product as a broadcast spray in 10 to 20 gallons of water per acre to control weeds in the rows. Uniform planting in straight rows aid in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by or through the protective shields.

PRECAUTIONS, RESTRICTIONS: Contact of this product in any manner to any vegetation to which treatment in not intended may cause damage. Such damage shall be,the sole responsibility of the applicator.

Wiper Applications

PRECAUTIONS, RESTRICTIONS: Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators should be adjusted so that the wiper contact point is at least two (2) inches above the desirable vegetation. Weeds should be a minimum of six (6) inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when height of weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. Better results may be obtained if 2 applications are made in opposite directions.

Soot Treatments

USE INSTRUCTIONS: Use a 1-1.5 percent solution

PRECAUTIONS, RESTRICTIONS: Apply this product prior to heading of grasses. Do not treat more than 10 percent of the total field to be harvested. The crop receiving the spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for the same reason.

Creating Rows in Annual Ryegrass USE INSTRUCTIONS: Use 16-32 third ounces of this product

per acre mixed with water. Use the higher rate when the ryegrass is greater than 6 inches tall. Best results are obtained when applications are made before the ryegrass reaches 6

PRECAUTIONS, RESTRICTIONS: Set nozzle heights to allow the establishment of the desired row spacing while preventing spray droplets, spray fines, or drift to contact the ryegrass plants not treated. Use of low pressure nozzles, or drop nozzles designed to target the application over a narrow band are recommended.

Grower assumes all responsibility for crop losses from

8.12 Herbs

TYPES OF HERBS: Peppermint, spearmint

USE INSTRUCTIONS. This product may be used as a spot treatment in spearmint and peppermint. Apply spray-to-wet with hand-held equipment, such as backpack and knapsack sprayers, pump-up pressure sprayers, hand-guns, handwands or any other hand-held or motorized spray equipment used to direct the spray solution on to a limited area

PRECAUTIONS, RESTRICTIONS: Allow at least 7 days between application and harvest. Further applications may be made in the same area at 30-day intervals. No more than one-tenth of any acre should be treated at one time. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for this reason.

8.13 Pastures

TYPES OF PASTURES: Bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa and clover

TYPES OF APPLICATIONS: Spot treatment, wiper application, preplant, preemergence, pasture renovation

Spot treatment and Wiper application USE INSTRUCTIONS: This product may be applied as a spot treatment or with wiper applicators in pastures. Applications may be made in the same area at 30-day intervals.

PRECAUTIONS, RESTRICTIONS: For spot treatment and wiper applications, apply in areas where the movement of domestic livestock can be controlled. No more than onetenth of any acre should be treated at one time. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

Preplant, Preemergence and Pasture renovation USE INSTRUCTIONS: This product may be applied prior to planting or emergence of lorage grasses and tegumes. In addition, this product may be used to control perennial pasture species listed on this tabel prior to re-planting.

PRECAUTIONS, RESTRICTIONS: Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

8.14 Peanuts

TYPES OF APPLICATIONS: Preplant, preemergence, at-

USE INSTRUCTIONS: This product may be applied before. during or after planting peanuts. Applications must be made prior to the emergence of the crop.

8.15 Small Fruits and Berries

LABELED CROPS: Blackberry, Blueberry, Boysenberry, Cranberry, Currant, Dewberry, Elderberry, Gooseberry, Huckteberry, Loganberry, Olallieberry, Raspberry (Black,

TYPES OF APPLICATIONS: Preplant, preemergence, directed spray (except cranberry), wiper application USE INSTRUCTIONS: This product may be applied as a pre-

plant or preemergence broadcast application or as a wiper application for crops listed in this section. Directed sprays may be applied to any crop except cranberries. For wick or wiper applicators, mix 1 gallon of this product in 4 gallons of water to prepare a 20 percent solution. In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

PRECAUTIONS, RESTRICTIONS: Do not permit herbicide solution to contact desirable vegetation, including green shoots, canes or foliage. Allow a minimum of 30 days between last application and harvest of cranberries. For other small fruits and berries, allow a minimum of 14 days between last application and harvest:

8.16 Soybeans

TYPES OF APPLICATIONS: Preplant, preemergence, at-planting, spot treatment, preharvest, selective equipment

Preplant, Preemergence and At-planting

USE INSTRUCTIONS: This product may be applied before, during or after planting soybeans. Applications must be made prior to emergence of the crop.

The following tank mixtures may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

LASSO/ALACHLOR CANOPYTM PROWL **COMMAND™** LINEX PURSUITM DUAL LOROX/LINURON **PURSUIT PLUS DUAL II LOROX PLUS SCEPTERIM FRONTIER** MICRO-TECH SENCORTM/LEXONETM **FUSIONTM** PARTNER SQUADRONIM **GEMINITM** PREVIEWIN THEROM

For improved burndown, this product may be tank-mixed with 2,4-D or 2,4-DB. See the 2,4-D tabel for intervals between application and planting.

Annual weeds: For difficult-to-control weeds such as fall panicum, barnyardgrass, crabgrass, shaltercane and broadleaf signatgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches tall, and 2 to 3 pints when weeds are over 6 inches tall

PRECAUTIONS, RESTRICTIONS: The tank mix recommendations in this section are not registered in California.

USE INSTRUCTIONS: For spot treatments, apply this product prior to initial pod set in soybeans.

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

Preharvest

USE INSTRUCTIONS: This product provides weed control when applied prior to harvest of soybeans.

Apply at rates given in the annual, perennial and woody brush tables. This product may be applied using either aerial or ground spray equipment. For ground applications, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 3 to 10 gallons of water per acre.

Apply after pods have set and lost all green color. Allow a minimum of 7 days between application and harvest of soybeans. Care should be taken to avoid excessive seed shatter loss due to ground application equipment.

PRECAUTIONS, RESTRICTIONS: Do not graze or harvest treated crop for livestock feed within 25 days of last preharvest application. DO NOT APPLY MORE THAN 6 QUARTS PER ACRE OF THIS PRODUCT FOR PREHARVEST APPLICA-TIONS. DO NOT APPLY MORE THAN 1 QUART PER ACRE OF THIS PRODUCT BY AIR. Do not apply to soybeans grown for seed as a reduction in germination or vigor may occur.

Selective equipment

USE INSTRUCTIONS: This product may be applied through recirculating sprayers, shielded applicators, hooded sprayers, wiper applicators or sponge bars in soybeans. Allow at least 7 days between application and harvest

PRECAUTIONS. RESTRICTIONS: See the "SELECTIVE EQUIPMENT part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this tabel for information on proper use and calibration of this equipment.

8.17 Sugarcane

TYPES OF APPLICATIONS: Preplant, preemergence, spot treatment, fallow treatments, hooded sprayers

Prepiant, Preemergence

USE INSTRUCTIONS: This product may be applied in or around sugarcane fields or in fields prior to the emergence of plant cane.

PRECAUTIONS, RESTRICTIONS: Do not apply to vegetation in or around ditches, canals or ponds containing water to be

Spot treatment

USE INSTRUCTIONS: This product may be applied as a spot treatment in sugarcane. For control of volunteer or diseased sugarcane, make a 1 percent solution of this product in water and spray to wel the foliage of vegetation to be controlled. Volunteer or diseased sugarcane should have at least

PRECAUTIONS, RESTRICTIONS: Avoid spray contact with healthy cane plants since severe damage or destruction may result. Do not feed or graze treated sugarcane foliage follow-

Fallow treatments

USE INSTRUCTIONS: This product may be used as a replacement for tillage in fields that are tying fallow between sugar-

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cane crops. This product may also be used to remove the tast stubble of ration cane. For removal of last stubble of ration cane, apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 new leaves. Allow 7 or more days after application before tiflage.

Hooded sprayers

USE INSTRUCTIONS: This product may be used through hooded sprayers for waed control between the rows of sugarcane. A hooded sprayer is a type of shielded applicator. The spray pattern is completely enclosed on the top and all 4 sides by a hood, thereby shielding the crop from the spray splitting.

Minimize the potential for spray particles to escape from under the hood by operating the sprayer at appropriate ground speeds, nozzle pressures and wind speeds. Depration on rough or sloping ground may result in spray particles escaping from the hood.

When applying to sugarcane that is grown on raised beds, ensure that the hood is designed to completely enclose the spray. If necessary, extend the front and rear flaps of the hoods to reach the ground in furrows between the rows.

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting the crop. Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator.

PRECAUTIONS, RESTRICTIONS: Do not allow treated weeds to come into contact with the crop. Droplets, mist, foam or splatter of the herbicide solution settling on the crop may result in discoloration, stunting or destruction.

8.18 Sunflowers

TYPES OF APPLICATIONS: Preplant, preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting sunflowers. Applications must be made prior to emergence of the crop.

A tank mixture with Provi may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1 quart of this product per acre for sunflowers. Make only one preplant or preemergent application per year. Do not feed or graze sunflower forage following application of this product.

8.19 Tree and Vine Crops (General)

TYPES OF APPLICATIONS: General weed control, middles (between rows of trees), strips (in row of trees), perennial grass suppression, selective equipment (except kiwi)

NOTE: THIS SECTION GIVES GENERAL DIRECTIONS THAT APPLY TO ALL CITRUS CROPS, TREE FRUITS, TREE NUTS AND VINE GROPS. SEE THE INDIVIDUAL CROP SECTIONS FOR INSTRUCTIONS. PREHARVEST INTERVALS, PRECAUTIONS AND RESTRICTIONS FOR SPECIFIC CROPS.

This product may be applied in middles, strips and for general weed control in established citrus groves, tree fruit and tree nut orchards, and vineyards. Apply at 1 pint to 5 quarts per acre. Repeat applications may be made up to a maximum of 10.6 quarts per acre per year. This product may also be used for site preparation prior to transplanting these crops. Allow a minimum of 3 days between application and transplanting. Applications may be made with boom equipment, COA, shielded sprayers, hand-held and high-volume wands, lances, orchard guns or with wiper applicator equipment, except as directed.

Middles (between rows)

USE INSTRUCTIONS: This product will control or suppress annual and perennial weeds and ground covers growing between the rows of labeled tree and vine crops. If weeds are under drought stress, irrigate prior to application. Reduced control may result if weeds have been moved prior to application.

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A tank mixture of this product plus Goal 2XL may be used for annual weeds in middles between rows of citrus crops, tree truits, tree nuts and vine crops. This mixture is recommended when weeds are stressed or growing in dense populations. 16 to 32 oz/A of this product plus 3 to 12 oz/A of Goal 2XL will control annual weeds with a maximum height or diameter of 5 inches, including crabgrass, hairy fleabane (Conyza bonariensis), common groundsel, junglerice, common lambsquarters, redroot pigweed, London rocket, common ryegrass, shepherd's-purse, annual sowthistle, common cheeseweed (maha), filaree (suppression), horseweed/marestail (Conyza canadensis), stinging nettle and common pursane (suppression). 12 to 32 oz/A of this product plus 3 to 12 oz/A of Goal 2XL will control common cheeseweed (malva) with a maximum height or diameter of 3 inches.

Strips (in rows)

USE INSTRUCTIONS: This product may be applied in rows of free or vine crops and may also be tank mixed with the following products:

DEVRINOL™ 50 DF PRINCEP CALIBER™ 90
DIREX™ 4L SIMAZINE 4L
GOAL 2XL SIMAZINE 80W
KARMEX DF SIM-TROL™ 4L
XROVAR I SOLICAM™ DF
XROVAR II SURFLAN™ AS
PROWL SURFLAN ™ AS

Do not apply these tank mixtures in Puerto Rico.

Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

Apply 1 pint to 5 quarts of this product per acre in these tank mixtures. Use rates at the higher end of the recommended rate range when weeds are stressed, growing in dense populations or are greater than 12 inches tall.

Perennial grass suppression

This product will suppress perennial grasses such as bahiagrass, bermudagrass, tall tescue, orchardgrass. Kentucky bluegrass, and quackgrass that are grown as ground covers in tree and vine crops.

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 8 fluid nunces of this product in 10 to 20 gallons of water per acre.

For suppression of Kentucky bluegrass covers, apply 6 fluid ounces of this product per acre. On not add ammonium sulfate

For best results, mow cool season grass covers in the spring to even their height and apply this product 3 to 4 days after mowing.

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 6 fluid ounces of this product in 10 to 25 gallons of water per acre. Apply 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 4 fluid ounces of this product per acre, followed by an application of 2 to 4 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

For burndown of bermudagrass, apply 1 to 2 quarts of this product in 3 to 20 gallons of water per acre. Use this treatment only if reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur.

For suppression of bermudagrass, apply 6 to 16 fluid ounces of this product per acre east of the Rocky Mountains and 16 fluid ounces of this product per acre west of the Rocky Mountains. Apply in a total spray volume of 3 to 20 gallons per acre, no sooner than 1 to 2 weeks after full green-up. If the bermudagrass is mowed prior to application, maintain a

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minimum of 3 inches in height. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated. East of the Rocky Mountains, rates of 6 to 10 fluid ounces per acre should be used in shaded conditions or where a lesser degree of suppression is desired.

Selective equipment (except kiwi)

Shielded and wiper applicators may be used in tree crops and grapes. Refer to the individual crop sections for time interval between application and harvest.

GENERAL PRECAUTIONS/RESTRICTIONS: For citron and olives, apply as a post-directed spray only.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT OR OTHER PARTS OF TREES AND VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

AVOID PAINTING CUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.

8.20 Tree Fruits

LABELEO CROPS: Apple, Apricot, Cherry (Sweet, Sour), Crabapple, Loquat, Mayhaw, Nectarine, Olive, Peach, Pear, Plum/Prune (All), Quince

TYPES OF APPLICATIONS: General weed control, middles (between rows of trees), strips (in row of trees), selective equipment

NOTE: FOR GENERAL USE DIRECTIONS, SEE THE "TREE, NUT AND VINE (GENERAL)" SECTION. THE FOLLOWING DIRECTIONS ARE SPECIFIC TO TREE FRUITS.

Restrictions on application equipment

For cherries, any application equipment listed in this section may be used in all states.

Any application equipment listed in this section may be used in apricots, nectarines, peaches and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, North Dakota, Oklahoma, Oregon, Texas, Utah and Washington, except for peaches grown in the states specified in the following paragraph. In all other states use wiper equipment only.

For PEACHES grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee only, apply with a shielded boom sprayer or shielded wiper applicator, which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low-hanging fimbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near trees which have been planted in the orchard for 2 or more years. EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 1 day between last application and harvest for apple, crabapple, loquat, mayhaw, pear, quince.

Allow a minimum of 17 days between last application and harvest for apricot, cherry, nectarine, clive, peach, plum/prene.

8.21 Tree Nuts

LABELED CROPS: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory nut, Macadamia, Pecan, Pistachio, Walnut (Black, English)

TYPES OF APPLICATIONS: General weed control, middles (between rows of trees), strips (in row of trees), selective equipment

NOTE: FOR GENERAL USE DIRECTIONS, SEE THE "TREE, NUT AND VINE (GENERAL)" SECTION. THE FOLLOWING DIRECTIONS ARE SPECIFIC TO TREE NUTS.

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PRECAUTIONS, RESTRICTIONS: Allow a minimum of 3 days between last application and harvest of tree nuts.

8.22 Tropical Crops

LABELED CROPS: Atemoya, Avocado, Banana, Barbados Cherry (acerola), Breadfruit, Canistel, Carambola, Cherimoya, Cocoa beans, Coconuts, Coffee, Dates, Durian, Figs, Guava, Jaboticaba, Jackfruit, Longan, Lychee, Mango, Mangosteen, Marmaladebox (genip), Papaya, Passion fruit, Persimmon, Pineapple, Plantain, Pomegranate, Rambutan, Sapodilla, Sapote (black, mamey, white), Soursop, Sugar apple, Tamarind, Tea.

USE INSTRUCTIONS: This product may be applied for general weed control or for site preparation prior to transplanting crops listed in this section. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.

PRECAUTIONS/RESTRICTIONS: Allow a minimum of 14 days between last application and harvest of acerola, atemoya, avocado, breadfruit, canistel, carambola, cherimoya, cocoa beans, coconuts, dates, figs, genip, jaboticaba, jackfruit, tongan, lychee, mango, mayhaw, passion fruit, persimmon, pomegranate, sapodilla, sapote, soursop, sugar apple, tamarind, and tea.

Allow a minimum of 28 days between last application and harvest of coffee.

Allow a minimum of 1 day between last application and harvest of banana, guava, papaya and plantain.

Do not feed or graze treated pineapple forage following application.

Q.23 Vegetable Crops

LABELED CROPS: Amaranth, Arrugula, Artichoke (Jerusalem), Beans (All), Beet greens, Garden Beets, Broccoli (All), Brussels sprouts, Cabbage (All), Cabbage (Chinese),

Cantaloupe, Cardoon, Cavalo Broccolo, Carrot, Cauliflower, Casaba melon, Celery, Celery (Chinese), Celeriac, Celluce, Chard (Swiss), Chayote, Chervil, Chick peas, Chicory, Chrysanthemum, Collards, Corn salad, Crenshaw melon, Cress, Cucumber, Dandelion, Dock (sorrel), Eggplant, Endive, Fennel (florence), Garlic, Gherkin, Ginseng, Gourds, Ground cherry, Guar, Honeydew melon, Honey ball melon, Horseradish, Kafe, Kohlrabi, Leek, Lentils, Lettuce, Mango melon, Melons (All), Mizuna, Muskmelon, Mustard greens, Okra, Onion, Oriental radish, Parsley, Parsnips, Peas (All), Pepinos, Pepper (All), Persian melon, Potato (Irish), Pumpkin, Purslane, Radish, Rape greens, Rhubarb, Butabaga, Salsify, Shallot, Spinach (All), Mustard Spinach, Squash (Summer, Winter), Sugar beets, Sweet potato, Tomatillo, Tomato, Turnip, Watercress, Watermelon, Yams.

USE INSTRUCTIONS: This product may be applied prior to the emergence of direct seeded vegetables or prior to transplanting vegetables.

PRECAUTIONS, RESTRICTIONS: When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product, which could cause crop injury, from the plastic prior to transplanting. Residues can be removed by a single 0.5 inch application of water, either by natural rainfall or via a sprinkler system. Applications made at emergence will result in injury or death to emerged seedlings.

For the following crops, apply only prior to planting. Allow at least 3 days between application and planting of cantaloupe, casaba melon, crenshaw melon, cucumber, eggplant, gherkin, gourds, ground cherry, honeydew melon, honey ball melon, mango melon, melons (all), muskmelon, pepper (all), persian melon, pumpkin, squash (summer, winter), tomatillo, watercress, and watermelon.

Wiper applicators may be used in rutabagas. Allow at least 14 days between application and harvest.

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Q.24 Vine Crops

LABELED CROPS: Grapes (raisin, table, wine), Kiwi fruit

TYPES OF APPLICATIONS: General weed control, middles (between rows), strips (in row), selective equipment

NOTE: FOR GENERAL USE DIRECTIONS, SEE THE "TREE, NUT AND VINE (GENERAL)" SECTION. THE FOLLOWING DIREC-TIONS ARE SPECIFIC TO VINE CROPS.

Applications should not be made when green shoots, canes or foliage are in the spray zone.

In the northeast and Great takes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury, or make applications with shielded sprayers or wiper equipment.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 14 days between last application and harvest.

9.0 Roundup Ready® Crops

The following instructions include all applications which can be made onto Roundup Ready® crops during the complete cropping season. Do NOT combine these instructions with other recommendations made for crop varieties which do not contain the Roundup Ready gene, in the "CROPS (ALPHABETICAL)" Section 8 of this label.

MONSANTO COMPANY RECOMMENDS USE OF THIS PRODUCT FOR POSTEMERGENCE APPLICATION ONLY ON CROP VARIETIES DESIGNATED AS CONTAINING THE ROUNDUP READY GENE.

Applying this product to crop varieties which are not designated as Roundup Ready will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops, or any desirable plants which do not contain the Roundup Ready gene, since severe injury or destruction will result.

The Roundup Ready designation indicates that the crop variety contains a patented gene which provides tolerance to Monsanto's Roundup brand herbicides. Information on Roundup Ready crop varieties may be obtained from your seed supplier or Monsanto representative.

ATTENTION: AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY GENE.

See the "MIXING" and "APPLICATION EQUIPMENT AND TECHNIQUES" sections of this label for additional directions and restrictions on the application of this product.

THOROUGHLY CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL CONTAMINATION FROM OTHER HERBICIDES PRIOR TO MIXING AND APPLYING THIS PRODUCT.

NOTE: The following recommendations are based on a clean start at planting by using a burn down application or tillage to control existing weeds before crop emergence. In no-till and stale seedbed systems, a preplant burn-down treatment of 16-64 fluid ounces per acre of this product is recommended to control existing weeds prior to crop emergence.

There are no rotational crop restrictions following the application of this product.

9.1 Soybeans with the Roundup Ready Gene

TYPES OF APPLICATIONS: Preplant, preemergence, atplanting, postemergence, preharvest, postharvest.

Application Instructions

Maximum Allowable Application Rates

- 1. Combined total per year
- for all applications
- 8 quarts per acre
- 2. Preplant, Preemergence applications
- 5 quarts per acre

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4. Maximum preharvest application rate

1 quart per acre

When applied as directed, this product will control labeled annual grasses and broadleal weeds in Roundup Ready soybeans. Many perennial grasses and broadleal weeds will be controlled or suppressed with one or more applications of this product.

PRECAUTIONS/RESTRICTIONS: The combined total application from crop emergence through harvest must not exceed 3 quarts per acre. The maximum rate for any single in crop application is 2 quarts per acre. The maximum combined total of this product which can be applied during flowering is 2 quarts per acre. Allow a minimum of 14 days between final application and harvest of soybeans.

For proper stewardship of aerial applications over-the-top of Roundup Ready soybeans, Monsanto recommends that grovers and applicators read and follow all precautions and procedures contained in the use guide "A Guide to On-Target Aerial Application" available by calling 1-800-332-3111 or on the internet at www.monsanto.com.

NOTE: The use of this product for in-crop applications over Roundup Ready soybean is not registered in California.

ANNUAL WEED RATE TARLES

The following rate recommendations will provide control of labeled grasses and broadleaf weeds in conventional and notill Roundup Ready soybean production systems. Refer to the "ANNUAL WEED RATE TABLES" in this label for rate recommendations for specific annual weeds.

Monsanto will not warrant crop satety or weed control when Roundup Ready soybeans are treated with herbicides not specified on this supplemental tabel. Because of the potential for, 1) crop injury, 2) poor weed control from antagonism, and/or 3) rotational crop restrictions, herbicides not specified on this supplemental tabel should not be used, whether applied preemergence or applied postemergence as a tank mixture with Roundup Ultra herbicide.

This product may be used up to 2 quarts per acre in any single in-crop application for control of annual weeds, where heavy weed densities exist.

MIGWEST/MID-ATLANTIC RECOMMENDATIONS

Narrow row or drilled soybeans: A single in-crop application of this product will provide effective control of labeled weeds. For best results, an initial application of 1 quart per acre, on 4-8" weeds is recommended. Weeds will generatly be 4-8" tall 3 to 5 weeks after planting. If the initial application is delayed and weeds are 8-18" talt, use 48 oz/A for best

Under adverse growing conditions such as drought, hail, wind damage or a poor soybean stand that slows or delays canopy closure, a sequential application of this product at 24 to 32 Iluid nunces per acre may be necessary to control late flushes of weeds.

Wide row soybeans: An in-crop application of this product will provide effective control of the initial stand of tabeled weeds. For best results, an initial application of 1 quart per acre, on 4-8' weeds is recommended. Weeds will generally be 4-8' tall 3 to 5 weeks after planting. If new flushes of weeds occur, they can be controlled by sequential applications of this product.

Initial and Sequential (if needed) Applications

Weed Height	Rate
(inches)	(fl.oz/A)
1-3	24
4-8	32
8-18	48

Giant ragweed: Apply 1 quart per acre when the weed is 8-12" tall to avoid the need for sequential application,

Black nightshade, Pennsylvania smartweed, velvetleaf and waterhemp. Apply 1 quart per acre to weeds 3-5' tall and 48 fl oz/A when weeds are up to 12 inches tall. For Morningglory species apply 32 fl oz/A when weeds are up to 4 inches tall, and 48 fl oz/A when weeds are up to 6 inches tall.

ROUNDUP READY CROPS 56

Some weeds, such as black nightshade, woolly cupgrass, shattercane, wild proso millet, burcumber, and giant ragweed, with multiple germination times may require a sequential application of this product. Suppressed or stunted weeds may also require sequential applications. Sequential applications should be made after some regrowth has occurred. Use a minimum of 24 fluid ounces of this product per acre for sequential applications.

SOUTHEAST RECOMMENDATIONS

Narrow row, drilled, or wide-row soybeans: An in-crop application of this product will provide effective control of the initial stand of labeled weeds. For best results, an initial application of 1 quart per acre, on 3-6' weeds is recommended. Weeds will generally be 3-6' tall 2 to 3 weeks after planting.

Initial Treatment

Weed Height	Rate
(inches)	(fl oz/A)
3-6	32
16-12	48

Under adverse growing conditions such as drought, hail, wind damage or a poor soybean stand that slows or delays canopy closure, a sequential application of this product at 16 to 32 fluid ounces per acre may be necessary to control late flushes of weeds.

Sequential Application (if needed)

2
A)

Florida pusley, hemp sestiania and spurred anoda: Apply 1 quart per acre to weeds 2-4 for the initial application. Apply 1 quart per acre when these weeds are 3-6 tall if a sequential application is necessary.

Morningglory, black nightshade, groundcherry, and Pennsylvania smartweed: Apply 24 fl oz/A on 1-3' v/eeds,

32 fl oz per acre on 3-6' weeds, or 48 fl oz/A on 6-12' weeds for the initial application.

Some weeds, such as black nightshade, broadleaf signalgrass, Texas panicum, burcumber, and sicklepod, with multiple germination times may require a sequential application of this product. Suppressed or stunted weeds may also require sequential applications. Sequential applications should be made after some regrowth has occurred. Use a minimum of 16 fluid ounces of this product per acre for sequential applications.

DELTA/MID-SOUTH RECOMMENDATIONS

Narrow row, drilled, or wide row soybeans: An in-crop application of this product will provide effective control of the initial stand of labeled weeds. A sequential application will be required to control new flushes of weeds. For best results, an initial application of 32 fl oz per acre, on 2-4' weeds is recommended. Weeds will generally be 2-4' tall 2 to 3 weeks after planting.

Initial Treatment

Weed Height

Trees Height	Hall
(inches)	(f oz/A)
2-4	32
5-12	48
Sequential Appl	lication
Weed Height	Rate
(inches)	(1 oz/A)
2-3	16
3-6	24
6-12	32

Hemp sesbania and spurred anoda: Apply a sequential treatment of 32 fl oz/A on 3-6' weeds of necessary.

Some weeds, such as black nightshade, broadleaf signalgrass, Texas panicum, burcumber, and sicklepod with multiple germination times may require a sequential application of this product. Suppressed or stunted weeds may also require sequential applications. Sequential applications should be made after some regrowth has occurred. Use a minimum of 16 fluid ounces of this product per acre for sequential applications.

ROUNDUP READY CROPS 5

PERENNIAL WEEDS RATE RECOMMENDATIONS

A 1- to 2-quart per acre rate (single or multiple applications) of this product will control or suppress perennial weeds such as: bermudagrass, Canada thistle, common milkweed, field bindweed, hemp dogbane, horsenettle, marestail (horseweed), nutsedge, quackgrass, rhizome johnsongrass, redvine, trumpetcreeper, swamp smartweed, and wirestern multly.

For best results, allow perennial weed species to achieve at least 6° of growth before spraying with Roundup Ultra herbicide.

10.0 FARMSTEADS

TYPES OF APPLICATIONS: General nonselective weed control, trim-and-edge, chemical mowing, cut stumps, habitat management.

10.1 General nonselective weed control, Trim-and-edge

USE INSTRUCTIONS: This product may be used to control annual weeds, perennial weeds and woody brush which are found in any part of the farmstead, including building-foundations, along and in fences, in dry ditches and canals, along ditchbanks, farm roads, shelterbelts, prior to landscape plantings and equipment storage areas.

This product may be tank mixed with the following products. Refer to these product labels for approved tarmstead sites and application rates. For annual weeds, use 1 quart per acre of this product when weeds are less than 6 inches tall and 1.5 quarts per acre when weeds are greater than 6 inches tall. For perennial weeds, apply 2 to 5 quarts per acre in these tank mixes. For tank mixtures with these products through backpack sprayers, handguns or other high-volume spray-to-wet applications, see the "HAND-HELD AND HIGH VOLUME EQUIPMENT" section of this label for recommended rates.

Plateau Arsenal Princep DF Ranvel Barricade 65WG Princep Liquid Ronstar 50 WP Diuron Sahara Endurance Simazine Escart Surflan Karmex DF Telar Krovar 1 DF Vanguish Dust 2.4-D Pendulum 3.3EC

Pendulum WDG Banvel tank mixtures may not be applied by air in California.

10.2 Chemical mowing

USE INSTRUCTIONS: This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Apply this product at a rate of 6 to 8 fluid ounces per acre: Use 8 fluid ounces of this product per acre when treating tall tescue, line fescue, orchardgrass or quackgrass covers. Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass. Apply treatments in 10 to 20 gallons of spray solution per acre. Chemical mowing applications may be made along farm ditches and other parts of farmsteads.

PRECAUTIONS, RESTRICTIONS: Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

10.3 Cut Stumps

TYPES OF APPLICATION: Treating cut stumps in any non-crop site listed on this label

USE INSTRUCTIONS: This product will control regrowth of cut stumps and resprouts of many types of woody brush and tree species, some of which are listed below. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut trees or resprouts close to the soil sur-

FARMSTEADS

50

FARMSTEADS 60

face. Apply a 50 to 100 percent solution of this product to the freshly-cut surface immediately after cutting. Ociays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full feaf expansion.

Salt-cedar

Sweetgum

Tan bak Willow

Alder Eudalyptus Madrone Oak

Reed, plant

PRECAUTIONS, RESTRICTIONS: DO NOT MAKE CUT STUMP APPLICATIONS WHEN THE ROOTS OF DESIRABLE WOODY BRUSH OR TREES MAY BE GRAFTED TO THE ROOTS OF THE CUT STUMP. INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT WOODY BRUSH OR TREES.

10.4 Habitat Management

TYPES OF USES: Habitat restoration and maintenance, wildlife food plots

Habitat restoration and maintenance

USE INSTRUCTIONS: This product may be used to control exotic and other undesirable vegetation in habitat management areas. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broadspectrum vegetation control requirements in habitat management areas. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement. The tank mixtures tisted in this section of the label may be used for habitat restoration and maintenance.

Wildlife food plots

USE INSTRUCTIONS: This product may be used as a site preparation treatment to control annual and perennial weeds prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage.

11.0 ANNUAL WEEDS RATE TABLES Alphabetically by Species

Water carrier volumes of 3 to 10 gallons per acre for ground applications and 3 to 5 gallons per acre for aerial applications are recommended.

Apply to actively growing annual weeds

On not tank mix with soil residual herbicides when using these rates unless otherwise specified.

For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.

For those rates less than 48 fluid ounces per acre, this product may be used up to 48 fluid ounces per acre where heavy weed densities exist.

Refer to this map for location of the regions listed in the annual weed tables below.



47/

ANNUAL WEEDS RATE TABLE 62

ANNUAL WEEDS RATE TABLE, NORTH AND SOUTH REGIONS Rate

				na	ıe	_	
		(F)	nid C	Junce	s Pe	s Acr	е)
	Decien	49	16	24	32	40	46
Weed Species	Region	Ma	vim()	ım H	eiahl	/Leπ	ցլի
				2	3*	5"	8"
Annoda, spurred		7, *	1"	_	3		•
Barley		-	18″	18"+	7"	9"	12"
Barnyardgrass	South	-	3"	5*		J	-
Derrigan	North	-	-	6"	12"	•	_
Bassia, fivehook		-		-	6"	-	
Bittercress		+	, 12″		٠	٠	
Bluegrass, annua	3	-	10"	-	-	-	•
Brome, downy		6*	-	-			•
Brome, Japanese		-	- 6"	-	24		041
Browntop panicu	im	٠.,	. 6"	8.	12		24
BLOAUTOD harace		+		6*	્ 12	•	-
Burcacamper		-	12	~ 20°	-	-	•
Buttercup	: -	-	20	. -	٠ -	-	-
Carolina foxtail		-		-	4	٠.	9"
Carolina geraniu	····	· ; -	. " -	6	¹ , 12	- "	-
Carpetweed	end a comme	٠	^ 6	· 20	γ.	-	-
Cheat		: ·.,	- 20	יינ			
Chervil	• • • • •	** - * .	- 12	2" 18	3" -		
Chickweed				_	8* 2	4" .	
Cocklebur			-		. 3	3" 4	: 6"
Copperleaf, hor	MOTHUEAN	٠				3″ 4	4" 6"
Copperleal, Vir	ginia .		_ 1		σ.	-	
Corn			-	2	-		- •
Carn speedwel	1.				8"	_	
Craborass			٠.'	12 1		3*	- 6"
Cutteaf evening	g [:]		Ť.	Ť -		•	
primrose				20"	-	-	
Dwarfdandelio	n _		- '		12"	_	
Eastern mann	agrass -	7.	-	ø	14		

			4"	8"	12"	-	-	
clipta	Cauch	_	4".	6*	8"	12"	24	•
Fall panicum	South North		6"	12"	18"	-	-	
	Motor		20"	-	-	-	-	
Falsedandelion	: :		12"		-	-	•	•
Falseflax, smallse	eo				6"	-	12	2"
Fiddleneck		-	6"	12"	-	-		-
Field pennycress			٠.		_	-	- 13	2"
Filaree		•	6*	201	٠.			-
Fleabane, annual		+	6"	20				_
Fleahane, hairy		-	0					
(Conyza bonar	nensis) -			61	12	, m		
Fleabane, rough		•	3"	0	12			
Florida pusley	-	•	-					
Foxtail	South	-	8*		- 41	,	_	
10/14	North	18"						_
Goalgrass, joint	ed	•	6			- 3″		18*
Goosegrass		-	3				-	10
Grain sorghum	(milo)	-	6		2″ 2	0"	-	
Groundsel, com	mon	-	6		- .	-	-	8"
Hemp sesbania				- 2	_	-	6"	201
				-		6".	•	ζŪ
Henbit Horseweed/	South	-		- 1	2"	3 0 °	-	-
Marestail	0							
	North			6″ `	12"	18"	-	•
(Conyza								
canadensis)	٠		_	6"	12*	18"	-	-
Itchgrass	٠.		-	-	-	6"	-	12"
Jimsonweed	South			-	18"	٠ ـ	-	•
Johnsongrass	•		٠.		100	-:		
seedling *	North.	•	_ `	127	18"	-	+	-
	Marai			3"	5"	7"	9~	12"
Junglerice				3*	8"	12"	-	20°
Knotweed			_ 1	to 6				-
Kochia ¹				6"	8"	12*	٠,	20°
Lambsquarte	rs .		Į.	20"	~ ·			-
Little barley			•	20				
		1.1	TT.	TA.	21	7		63

ANNUAL WEEDS RATE TABLE

ANNUAL WEEDS RATE TABLE, NORTH AND SOUTH REGIONS

Я	2	ŧ	p

			(Fluid Dunces Per Acre)					
Weed Species	Region	12	16	24	32	40	48	
		Ma	a kills	um K	e ig h	l/Ler	gin	
London rocket	•	-	6"		-	-	-	
Mayweed		•	-	2*	6*	127	18*	
Morningglory (Ipa	moea spp.) - (-	2"	4*	-	6"	
Mustard, blue		6^	-	-		-	-	
Mustard, tansy		5"	12	20°	٠	-	-	
Mustard, tumble		6*	÷	-	-	-	-	
Mustard, wild		8"	12*	18"		-	-	
Nightshade, black		-	6*	12"		-	-	
Nightshade, hairy			6"	. 12"		-		
Oats		-	-	6-	20	•	-	
Pigweed		-	12*	18"	24"	-	-	
Prickly lettuce			6*	12"	20~	-	•	
Purslane		-	-	-	6*	-	12"	
Ragweed, common	South		4"	6*	8	-	11-	
	North	-	6"	12"	18"	-	-	
Ragweed, giant		-	-	4"	6"	-	11"	
Red rice		-	-	-	4"	-	-	
Aussian thistle			-		6"	-		
Rya	South	-	. 6*	20"	60"	-	-	
	North	-	18"	18"+				
Ryegrass		-		-	6"	-	7*+	
Sandbur, field		12"	•	-	-	-		
Shattercane		-	12"	18"	-	-	-	
Shepherd's-purse		-	6"	12"	-			
Sicklepod		-	-	2"	4"	-	8-	
Signalgrass, broad	lleaf	-	3*	5-	7"	9*	12"	
Smartweed, ladyst	humb	-	4*	6*	8"	-	12"	
Smartweed, Penns	sylvania	-	4"	6"	8*	-	12"	

Sowthistle, annu-	Sowthistle, annual		-	•	6"	-	12"
Spanishneedles		-	-	-	8*	-	18"
Speedwell, purstane		-	121	-	- '	-	-
Sprangletop			6″	12"	20″	-	-
Spurge, prostrate		-	6"	12"	20*	-	-
Spurge, spotted		-	6"	12"	20	-	•
Spurry, umbrella		6*	-	-	-	-	
Stinkgrass		12*	-		. -	-	•
Sunflower			12"	18"	-	-	•
Teaweed/Prickly	Teaweed/Prickly sida		1"	2-	3"	4"	6"
Texas panicum	Texas panicum		6"	8"	12"	-	24"
Velvetleaf	South		2"	3"	4"	5*	8"
	North	-	3"	67	12"	-	-
Virginia pepperw	eed	-	181	-		-	-
Waterhemp		-	-	6'	12"	-	
Wheat	South	-	5*	30"	-	-	
	North	-	18"	18"+	•	-	-
Wheat (overwint)	ered)	-	5"	18*	-	-	
Wild oats	,	-	12"	-	-	-	-
Wild Proso Mille	ı		•	5"	127	12"	18"
Witchgrass			12"	-	-	-	-
Wootly cupgrass		-	61	12"	-	-	-
Yellow rocket		-	-	12"	20"	-	-
Do not treat kock	nia in the b	utton s	stage				

ANNUAL WEEDS RATE TABLE, WEST REGION

Rate

	(Fluid Ounces Per Acre)						
Weed Species	12 16 24 32	48					
	Maximum Keight/Ler	igth					
Barley	12*	-					
Barnyardgrass .	6"	-					
Bluegrass, annual	6*	-					
Bluegrace hulbour	E* .						

ANNUAL WEEDS RATE TARLE

ANNUAL-WEEDS RATE TABLE 6

ANNUAL WEEDS RATE TABLE, WEST REGION Rate

	naję				
	(Fli	ուգ Օա	nces	Per Ai	cre)
Weed Species	12	16	24	32	48
	Ma	zimum	i Heig	jht/Le	ngth
Brome, downy 1	6"	•	-		-
Buttercup	•	12"	•	•	•
Cheat	-	6"	-	-	-
Chickweed	-	6"	-	-	-
, Cocklebur .	-	12"	-	-	-
Corn .	-	6"	-	-	-
Crabgrass	-	12"	•	-	-
Dwarfdandelion	-	12"	-	-	•
Fall panicum	-	12*	-		-
Falseflax, smallseed		12*	-	-	-
Field pennycress	-	6"	-	•	•
Filaree	-	-	-	-	12"
Fleabane, hairy	-	6"	-	•	•
(Conyza bonariensis)					
Florida pustey	-	-	-	12"	7
Foxtail	(81	1. oz. fe	or up 1	to 12")
Goatgrass, jointed	-	6"	•	-	-
Groundsel, common	-	6"	-	-	•
Henbit	-	5"		-	•
Horseweed/Marestail	-	6	- '	-	-
(Conyza canadensis)					
Johnsongrass, seedling	-	12"	-	•	. •
Lambsquarters	. •	, 6 "	-	-	
London rocket	-	6"	-	•	•
Morningglory (Ipomoea spp.		2"	-	-	-
Mustard, blue	6*	-	•	•	-
Mustard, tansy	6*	-	-	-	-
Mustard, tumble	6"	-	-	•	•
Mustard, wild	6"		•.	-	•
Pigweed	٠,	12"		-	•
Rye	12*	-	-	-	-

Ryegrass, Italian	-	6"		-	
Sandbur, field	12*	•	-	-	-
Shattercane	12"	-	-	-	
Shepherd's-purse	-	6*	-	•	
Sowthistle, annual	-	6"	-	-	-
Spurge, annual	•	6"		-	•
Stinkgrass	12"	-	-	-	
Texas panicum	-	12*	-	-	
Wheat	18*	-	-	-	
Wild pats		12"	-	-	
Witchgrass	-	12*	-	-	
-					

¹ For control of Downy brome in no-till systems, use 16 fluid ounces per acre.

11.1 Annual Weeds—Water : Carrier Volumes of 10 to 40 Gallons Per Acre

Apply 1 to 1.5 quarts of this product per acre. Use 1 quart per acre if weeds are less than 6 inches tall and 1.5 quarts per acre if weeds are over 6 inches tall.

These rates will provide control of weeds listed in the annual weed control tables when water carrier volumes are 10 to 40 gallons per acre for ground applications.

11.2 Annual Weeds—Tank Mixtures with 2,4-D or Banvel

12 to 16 fluid ounces of this product plus 0.25 pound a.i. of Banvel or 0.5 pound a.i. of 2,4-D per acre with control the following weeds with the maximum height or length indicated: 6" — prickly lettuce, marestail/horseweed (Conyza canadensis), morningglory (Ipomoea spp.), kochia (Banvel only); 12" — cocklebur, lambsquarters, pigweed, Russian thistie.

16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D per acre will control the following weeds when they are a maximum height or length of 6 inches; common ragweed, giant ragweed, Pennsylvania smartweed, and velvetleaf.

12 fluid ounces of this product plus 0.25 pound a.i. of Banvel or 0.5 pound a.i. of 2,4-0 per acre will control foxtail. up to 18"

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if Banvel is applied within 45 days of planting.

DO NOT APPLY BANVEL TANK MIXTURES BY AIR IN CALIFORNIA.

12.0 PERENNIAL WEEDS RATE TABLE Alphabetically by Species

Apply to actively growing perennial weeds.

NOTE: If weeds have been moved or tilled, do not treat until plants have resumed active growth and have reached the recommended stages.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

Unless otherwise stated, allow 7 or more days after application before tillage.

Best results are obtained when soil moisture is adequate for active weed growth.

Alfalfa

3-10

Make applications after the fast hay cutting in the fall, Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil freeze-up.

Alligatorweed

3-20

1.5%

Partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain control.

Apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth.

Bahiagrass -

3-5 3-20

Apply when most plants have reached the early head stage.

1.5 10-20

For suppression in grass seed production areas. For ground applications only. Ensure entire crown area has resumed growth prior to a talt application. Bentgrass should have at least 3 inches of growth. Tillage prior to treatment should be avoided. Tillage 7 to 10 days after application is recommended for best results.

Bermudagrass

3-5 3-20

For control, apply 5 quarts of this product per acre. For partial control, apply 3 quarts per acre. Treat when bermudagrass is actively growing and seedheads are present. Retreatment may be necessary to maintain control.

Bermudagrass,

water (knotgrass) 1-1.5 5-10

Apply 1.5 quarts of this product in 5 to 10 gallons of water per acre. Apply when water permudagrass is 12 to 18 inches in length, Allow 7 or more days before tilling, flushing or flooding the field.

Fall applications only: Apply 1 quart of this product in 5 to 10 gallons of water per acre. Fallow fields should be tilled prior to application. Apply prior to frost on water bermudagrass that is 12 to 18 inches in

This product is not registered in California for use on water dermudagrass.

Bindweed, field ... 0.5-5 - 3-20 ... 2% ...

Do not treat when weeds are under drought stress as good soil maisture is necessary for active growth.

Weed Species Rate Water Hand-Held (QT/A) Volume (QPA) % Solution

For control, apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts east of the Mississippi River. Apply when the weeds are at or beyond full bloom. For best results, apply in fate summer or fall. Fall treatments must be applied before a killing frost.

Also for control, apply 2 quarts of this product plus 0.5 pound a.i. of Banvet in 10 to 20 gallons of water per acre. Do not apply by air.

For suppression on irrigated agricultural land, apply 1 to 2 quarts of this product plus 1 pound a.i. of 2,4-0 in 10 to 20 gallons of water per acre with ground equipment only. Applications should be made following harvest or in fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length. The use of at least one irrigation will promote active bindweed growth.

For suppression, apply 16 fluid nunces of this product plus 0.5 pound a.i. of 2,4-D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Apply by air in fallow and reduced tillage systems only. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length.

In Catilornia only, apply 1 to 5 quarts of this product per acre. Actual rate needed for suppression or control will vary within this range depending on local conditions. For suppression on irrigated land where annual tillage is performed, apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to bindweed that has reached a lengin of 12 inches or greater. Allow maximum weed emergence and runner growth. Allow 3 or more days after application before tillage.

Bluegrass, Kentucky 1-2 3-40 2%

Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.

Blueweed, Texas 3-5 3-40 27

Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. Apply

when plants are at or beyond full bloom. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.

Brackenfern 3-4 3-40 1-1

Apply to fully expanded fronds which are at least 18 inches long

Bromegrass, smooth 1-2 3-40, 24

Apply 2 quarts of this product in 10 to 40 gallons of water per acrewing most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.

Bursage, woolly-leaf -- 3-20 25

For control, apply 2 quarts of this product plus 1 pint of Banvel per acre. For parial control, apply 1 quart of this product plus 1 pint of Banvel per acre. Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering.

Canarygrass, reed 2-3 3-40 2

For best results, apply when most plants have reached the boot-tohead stage of provide

head stage of growth.

Cattail 3-5 3-40 2%

Apply when most plants have reached the early head stage.

Clover, red, white 3-5 3-20 - 2%

Apply when most plants have reached the early bud stage Cogongrass 3-5 10-40 2%

Apply when cogongrass is at least 18 inches tall in late summer or fall. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.

Dallisgrass 3-5 3-20 2%

Apply when most plants have reached the early head stage

Dandellon 3-5 3-40 2%

Apply when most plants have reached the early bud stage of growth.

PERENNIAL WEEDS HATE TABLE 71

Weed Species Rate Water Hand-Held (QT/A) Volume (GPA) % Solution

Also for control, apply 16 fluid nunces of this product plus 0.5 pound a.i. 2.4-D in 3 to 10 gallons of water per acre.

3-40

Dock, curly

3-5

4

Apply when most plants have reached the early bud stage of growth. Also for control, apply 16 fluid ounces of this product plus 0.5 pound a.t. 2.4-D in 3 to 10 gallons of water per acre.

Dogbane, hemp

3-4

2%

Apply when most plants have reached the late bud to flower stage of growth. Following crop harvest or moving, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall.

For suppression, apply 16 fluid ounces of this product plus 0.5 pound a.i. of 2,4-D in 3 to 10 gallons of water per acts for ground applications and 3 to 5 gallons of water per acre for serial applications. Delay applications until maximum emergence of dogbane has occurred.

Fescue (except tall) 3-5

3-20

2%

Apply when most plants have reached the early head stage

Fescue tal

1-3 3-40

2%

Apply 3 quarts of this product per acre when most plants have reached boot-to-early seedhead stage of development.

Fall applications only: Apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to lescue in the fall when plants have 6 to 12 inches of new growth. A sequential application of 1 pint per acre of this product will improve long-term control and control seedlings germinaling after fall treatments or the following spring.

Guineagrass

3 3-40

194

Apply when most plants have reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment.

Horsenettie

3-5 3-20

29

Apply when most plants have reached the early bud stage.

Horseradish

3-40

2%

Apply when most plants have reached the late and to flower stage of growth. For best results, apply in late summer or fall.

Iceniar

1.5-29

Iceplant should be at or beyond the early bud stage of growth. Thorough coverage is necessary tor best control.

Jerusalem artichoke 3-5 3-2

2%

Apply when most plants are in the early bud stage.

Johnsongrass

0.5-3 3-40

1%

In annual cropping systems apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In noncrop, or areas where annual tillage (no-till) is not practiced, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre.

For best results, apply when most plants have reached the boot-tohead stage of growth or in the fall prior to frost. Allow 7 or more days after application before tillage. Do not tank-mix with residual herbicides when using the 1 quart per acre rate.

For burndown of Johnsongrass, apply 1 pint of this product in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before fillage.

Spot treatment (partial control or suppression)—Apply a 1 percent solution of this product when Johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.

Kikuyugrass

2-3 3-40

29

Spray when most kikuyugrass is at least 8 inches in height (3- or 4leaf stage of growth). Allow 3 or more days after application before tillage.

Knapweed

4. 3-

2%

Apply when most plants have reached the late bud to llower stage of growth. For best results, apply in late summer or fall.

Lantana

1-1.25

Apply at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth.

Lespedeza

3-5 3-20

Apply when most plants have reached the early bud stage

Milloweed, common 3

3-40

2%

Apply when most plants have reached the late bud to flower stage of

Muhly, wirestern - 1-2

3-40

Use 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre or in pasture, sod, or noncrop areas. Spray when the wirestem muhly is 8 inches or more in height. Do not till between harvest and fall applications or in the fall or spring prior to spring applications. Allow 3 or more days after application before tillage.

Mulfein, common 3-5 3-20 -

Apply when most plants are in the early bud stage.

Napiergrass 3-5 3-20

Apply when most plants are in the early head stage.

2: - 3-10 silverleat 2% Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost,

Nutsedge; :

purple, yellow 0,5-3: 3-40 - 11-2%

Apply 3 quarts of this product per acre or apply a 1 to 2 percent solution for control of nutsedge plants and immature nutlets attached to treated plants. Treat when plants are in flower or when new nutlets can be lound at rhizome tips. Nutlets which have not germinated will not be controlled and may germinate following treatment. Repeat treatments will be required for long-term control of ungerminated tubers.

Sequential applications: 1 to 2 quarts of this product in 3 to 10 galions of water per acre will also provide control. Make applications when a majority of the plants are in the 3- to 5-leaf stage (less than 6 inches tall). Repeat this application, as necessary, when newly emerging plants reach the 3- to 5-leaf stage. Subsequent applications will be necessary for long-term control.

For partial control of existing plants, apply 1 pint to 2 quarts of this product in 3 to 40 gallons of water per acre. Treat when plants have 3 to 5 leaves and most are less than 6 inches tall. Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants.

Orchardorass

1-2 3-40

Apply 2 quarts of this product in 10 to 40 pallons of water per acre when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.

Orchardgrass sods going to no-till corn: Apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications. Allow at least 3 days following application before planting. A sequential application of atrazine will be necessary for optimum results.

Pampasgrass

Pampasgrass should be at or beyond the boot stage of growth. Thorough coverage is necessary for best control.

3-5 3-20

Apply when most plants are in the early head stage.

Phragmites 3-5 10-40

For partial control. For best results, treat during late summer or fall months or when plants are actively growing and in full bloom. Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeal treatments may be nec essary to maintain control. Visual control symptoms will be slow to develop.

Poison hemlock. ---

1-2% Apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth.

Pokeweed, common 1 3-40 2%

Apply to actively growing plants up to 24 inches tall.

PERENNIAL WEEDS RATE TABLE 75

3-40

In annual cropping systems, or in pastures and sods followed by deep tillage: Apply 1 quart of this product in 3 to 10 gallons of water per acre. For 10 to 40 gallons of water per acre, apply 2 quarts of this product. On not tank mix with residual herbicides when using the 1 quart rate. Spray when quackgrass is 6 to 8 inches in height. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or socs, use a moldboard ploy/ for best results.

In pastures, sods or noncrop areas where deep tillage does not follow application. Apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre when the quackgrass is greater than 8 inches tall.

0.75-2 5-10

For suppression, apply 24 fluid nunces of this product per acre at each of two applications 7 to 14 days apart or a single application of 2 quarts per acre. Apply recommended rates in 5 to 10 gallons of water per acre. Apply in late September or early October to plants which are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.

Reed, giant

Best results are obtained when applications are made in late summer to fall. 3-40

Ryegrass, perennial 1-3

1%

In annual cropping systems apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In noncrop, or areas where annual tillage (no-till) is not practiced, apply 2 to 3 quarts of this product in 10 to 40 galtons of water ger acre.

For best results, apply when most plants have reached the boot-tohead stage of growth or in the fall prior to frost. Do not tank-mix with residual herbicides when using the 1 quart per acre rate

Smartweed, swamp 3-5

3-40

Apply when most plants have reached the early bud stage of growth.

Also for control, apply 16 fluid nunces of this product plus 0.5 pound ali, of 2,4-0 in 3 to 10 gallons of water per acre in the late summer

3-40

Sovrthistle, perennial 2-3

Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage

Spurge, leafy

3-10

For suppression, apply 16 fluid ounces of this product plus 0.5 bound a.i. 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. If moving has occurred prior to treatment, apply when most of the plants are 12 inches tall.

Starthistle, yellow 2

10-40

2%

Best results are obtained when applications are made during the rosette, bolting and early flower stages.

Sweet potato, wild

Partial control. Apply to plants that are at or beyond the bloom stage of growth. Repeat applications may be required.

Thistle, artichoke

Partial control. Apply to plants that are at or beyond the bloom stage of growth. Repeat applications may be required.

Thistle, Canada

2-3 3-40

Apply when most plants are at or beyond the bud stage of growth. After harvest, moving or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.

For suppression, apply 1 quart of this product, or 1 pint of this prodact plus 0.5 pound a.i. 2,4-0, in 3 to 10 gallons of water per acre in the late summer or fall after harvest, mowing or tillage. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as teaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.

Weed Species	- Rate	Water	· Hand-Held
##************************************	(DT/A)	Volume (GPA	i) % Solution 🗎

Timothy

2-3 3-40

2%

For best results, apply when most plants have reached the boot-to-head stage of growth.

Torpedogras

4-5 3-40

2%

For partial control. Apply when most plants are at or beyond the seedhead stage of growth. Repeat applications will be required to maintain control. Fall treatments must be applied before trost.

Trumpetcreeper

5-10

2%

Partial control. Apply in late September or October, to plants which are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing trost.

Vaseygrass

3-5 3-20

2%

Apply when most plants are in the early head stage.

Velvetgrass

3-5 3-20

20/

Apply when most plants are in the early head stage.

Wheatgrass, western 2-3

2%

For best results, apply when most plants have reached the boot-to-head stage of growth.

3-40

13.0 WOODY BRUSH AND TREES RATE TABLE Alphabetically by Species

Apply this product after full leaf expansion, unless otherwise directed. Use the higher rate for larger plants and/or dense areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation.

In arid areas, best results are obtained when applications are made in the spring to early summer when brush species are at high moisture content and are flowering.

Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following

Weed Species		the second of the second	Hand-Held (PA) % Solution
Alder	3-4	3-40	1-1.5%
For control			
Ash	2-5	.3-40	1-2%
Partial control			
Aspen, quaking .	2-3	3-40	1-1.5%
For control			
Bearmat (Bearclover)	2-5	3-40	1-2%
Partial control			
Beech	2-5	3-40	1-2%
Partial control			
Birch	2	3-40	1%
For control			
Blackberry *	3-4	10-40	1-1.5%

For control. Make applications after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. Applications may also be made after leaf drop and until a killing frost or as long as stems are green. After berries have set or dropped in late fall, blackberry can be controlled by applying a 3/4 percent solution of this product, for control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre.

WOODY BRU	SH A	ND TREE	S 80
Weed Species		Water	Hand-Held
	٠		PA) % Solution -
Blackgum	2-5	3-40	1-2%
For control			
Bracken	2-5	3-40	1-2%
Far control			
Broom; French, Scotch			1.5-2%
For control			
Buckwheat, California	_	_	1-2%
For partial control. Th best results.	orandy :	coverage of fo	Hage is necessary fo
Cascara	2-5	3-40	1-2%
Partial control			
Catsclaw		_	1-1.5%
Partial control			
Ceanothus	2-5	3-40	1-2%
Partial control			
Chamise	 .		1%
For control. Thorougi results.	h covera	ge of toliage	is necessary for be
Cherry; bitter, black, pin	2-3	3-40	1-1.5%
For control	•		
Coyote brush	 ·	_	1.5-2%
For control. Apply whi fully developed.	en at l ea	st 50 percent	of the new leaves a
	~ -		

3-40

1-2%

1%

Dogwood

Partial control Elderberry

For control

Elm	2-5	3-40	1-2%			
Partial control						
Eucalyptus		<u>-</u>	2%			
For control of eucalyptic 12 leet tall. Ensure com stressed plants.						
Florida holly (Brazilia Peppertree)	an 2-5	3-40	1-2%			
Partial control						
Gorse	2-5	3-40	1-2%			
Partial control						
Hasardia	'		1-2%			
Partial control. Thoroug	tu covers	ge of foliage is no	cessary for best			
Hawthorn	2-3	3-40	1-1.5%			
For control						
Hazel	2 `	3-40	1%			
For cantrol						
Hickory	2-5	3-40	1-2%			
Partial control						
Honeysuckle	3-4	3-40	1-1.5%			
For control						
Hombeam, American	2-5	3-40	1-2%			
Partial control						
Kudzu	4	3-40	2%			
For control, Repeat applications may be required to maintain control.						
Locust, black	2-4	3-40	1-2%			
Partial control						
Madrone resprouts			2%			
Partial control. Apply to resprouts that are 3 to 6 feet fall. Best results are obtained with spring/early summer treatments.						

WOODY BRUSH AND TREES 82 Weed Species Rate Water Hand-Held

Weed Species	Rate (OT/A)	Water Volume (GPA)	Hand-Held : % Solution
Manzanita	2-5	3-40	1-2%
Partial control			•
Maple, red	2-4	3-40	1-1.5%
For control, apply a 1 to cent of the new leaves a to 4 quarts of this produ	re fully de	veloped. For partia	
Maple, sugar	_	-	1-1.5%
For control. Apply whe fully developed.	n at least	50 percent of the	new leaves are
Monkey flower	_	_	1-2%
Partial control. Thoroug results.	h covera	ge of foliage is ne	cessary for best
Oak; black, white -	2-4	3-40	1-2%
Partial control			
Sage brush, Oak, post	3-4	3-40	1-1.5%
For control		٠.	
Oak; northern, pin		 .	1-1.5%
For control. Apply when fully developed	n at leasl	50 percent of the	new leaves are
Oak; southern red	2-3	3-40	1-1.5%
For control	•		
Persimmon	2-5	3-40	1-2%
Partial control			
Pine	2-5	3-40	1-2%
For control			
Poison ivy/ Poison oak	4-5	3-40	2%

For control. Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.

Poplar, yellow	2-5	3-40	1-2%
Partial control			
Redbud, eastern	2-5	3-40	1-2%
For control			
Rose, multiflora	2	3-40	1%
For control. Treatments leaf-eating insects.	should be	e made prior to lea	f deterioration by
Russian olive	2-5	3-40	1-2%
Partial control			
Sage, black	_		1%
For control. Thorough results.	coverag	e of foliage is ner	cessary for best
Sage, white	2-5	3-40	1-2%
Partial control			
California	-	_	1%
For control. Thorough results.	coverag	e of foliage is ned	essary for best
Salmonberry	2	3-40	1%
For control			
Salt-cedar	2-5	3-40	1-2%
For control			
Sassafras	2-5	3-40	1-2%
Partial control		_	
Sourwood	2-5	3-40	1-2%
Partial control		•	
Sumac; poison, smooth, winged	2-4	3-40	1-2%
Partial control			
Sweetgum	2-3	3-40	1-1.5%
For control			

WOODY BRUS	SH AN	D TREES	84
Weed Species		Water Volume (GPA)	Hand-Held % Solution
Swordfern	2-5	3-40	1-2%
Partial control			
Tallowtree, Chinese	_	_	1%
For control. Thorough results.	coverag	e of foliage is ne	cessary for best
Tan oak resprouts	_	_	2%
For partial control, App tall. Best results are obta	ly to resp ained with	routs that are less riall applications.	than 3 to 6 feet
Thimbleberry	2	3-40	1%
For control			
·Tobacco, tree	_	_	1-2%
Partial control			
Trumpetcreeper	2-3	3-40	1-1,5%
For control			
Vine mapte	2-5	3-40	1-2%
Partial control			
Virginia creeper	2-5	3-40	1-2%
For control			
Waxmyrtle, southern	2-5	3-40	1-2%
Partial control			
Willow	3	3-40	1%

14.0 LIMIT OF WARRANTY AND LIABILITY

For control

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company's stewardship requirements and with express written permission from this Company.

For over-the-top uses on Roundup Ready crop varieties, crop safety and weed control performance are not warranted by



LIMIT OF WARRANTY

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Monsanto when this product is used in conjunction with "brown bag" or "bin run" seed saved from previous year's production and replanted.

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This product is protected by U.S. Patent No. 4,405,531 and by U.S. Patent No. 5,703,015, Other patents pending.

No license granted under any non-U.S. patent(s).

EPA Reg. No. 524-475



In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

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Other patents pending.

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NOT REVIEWED In Accordance with PR Notice 82-23 Based on Braft Laboling Date

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TEL: (202) 783-2460 FAX: (202) 783-2468

March 7, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Ultra® Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Supplemental Label for

Use only for seed production of wheat with the Roundup Ready Gene

Déar Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed supplemental label (Print Plate No. 21137Y1-76) for Roundup Ultra Herbicide for use only for seed production of wheat with the Roundup Ready Gene approved by the EPA September 29, 1999.

Vickie W

If you have any questions regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely,

Debra Hinton

State Registration Specialist

Deble Hinton

CC:

R. P. Schneider

A. M. Kirk

Please read instructions on	reverse before comple	ting form.		····	Form Approv	ed. OMB No	. 2070-0060		,,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
\$EPA	Environmental	nited States Protection ngton, DC 204	_	ency			tration dment	1	68146
	•	Applicatio	n for	Pesticid	e - Sectio	on I	,		
1. Company/Product Numb	524-475			Mr.	oduct Manage James To		1	oposed (Classification Restricted
4. Company/Product (Name Roundup I) Jitra Herbicide			PM#	25				
5. Name and Address of As Monsanto Company 600 13th Street Washington, DC	/ , N.W., Suite 6			(b)(i), my to: EPA Re	product is :	similar or ide	entical in co	mpositi	Section 3(c)(3) on and labeling
L1			Sac	tion - II	t Name				······································
Amendment - Explai	ponse to Agency letter	dated			Final printed to Agency letter "Me Too" App Other - Explain	deted olicetion.	Se Se	pt. 29	3, 1999
,			Sec	tion - III			······		
1. Material This Product W	ill Be Packaged In:		-	···········	···	·····	*******		-
Child-Resistant Packaging Yes* No * Certification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No, par containar	1f "Ye	Soluble Pac Yes No s" uge wot	No. per container	2. Type	of Container Metel Please Glass Paper Other (5	Specify)_	
	Container	4. Size(s) Ret	·····	iner		Location of On Le			product .
6. Manner in Which Label in	s Affixed to Product	Lithogr Paper j Stencii	lued		Other				
			Sec	tion - IV		-			
1. Contact Point (Complete	e items directly below f	or identification	of indi	viduel to be	contacted, if .	necessary, to	process this	apolicat	נ.רסט.
Name Dr. Russel	1 P. Schneider			Agricult Director	ural Reg	ulation		6 No (In 783+2	chide Area Code)
	ements I have made on ny knowingly false or n o law.		ali attaci				•	-Race	Application sived Stamped)
2. Signature	ie Him		i, Title	Registra	ition Spe	cialíst			N&&
4. Typed Name De	ebra Hinton		. Date	Marc	h 7, 200	0			700

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- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 6. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8 x 11 inch paper for submission.

Submission of Data - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION 1 - This section must be completed, as applicable, for all registration actions.

- 1. Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this posticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- Expedited Review FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "emend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- 1. Type of Packaging Check the appropriate block if your product will be packaged in the indicated packaging types, '
 Indicate the size of the individual packets and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Location of Not Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which label is affixed to product Indicated the method product label is attached to retail container.

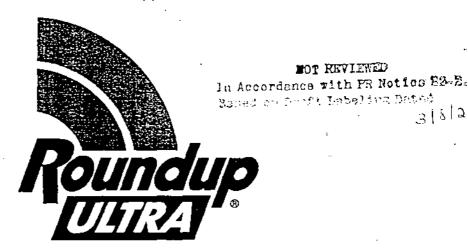
SECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.,
- 6. EPA Use Only,

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP ULTRA® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

"Label" as used in this supplemental labeling refers to the label booklet for Roundup Ultra herbicide and this supplement.



EPA Reg. No. 524-475

Roundup Ultra and Roundup Ready are registered trademarks of Monsanto Company.

NOT REVIEWED

3/8/2000

FOR USE ONLY FOR SEED PRODUCTION OF WHEAT WITH THE ROUNDUP READY® GENE

Keep out of reach of children.

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This label must be in the possession of the user at the time of application.

AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, OTHER THAN WHEAT WITH THE ROUNDUP READY® GENE, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet for Roundup Ultra® herbicide for essential product performance information.

NOTE: THIS PRODUCT MAY BE USED FOR CONTROL OF NON-GLYPHOSATE TOLERANT WHEAT IN PRODUCTION FIELDS OF WHEAT CONTAINING THE ROUNDUP READY GENE. SEVERE INJURY OR DEATH WILL RESULT IF WHEAT VARIETIES WHICH DO NOT CONTAIN THE ROUNDUP READY GENE ARE SPRAYED WITH THIS PRODUCT.

USE RECOMMENDATIONS

This product will control non-glyphosate tolerant wheat in seed production fields of wheat containing the Roundup Ready gene. Apply up to 32 ounces of this product in 5 to 20 gallons of spray solution per acre as a broadcast spray. A second application up to 32 ounces per acre may be applied, if needed to control non-glyphosate tolerant wheat plants.

DO NOT EXCEED A MAXIMUM RATE OF 2 QUARTS OF THIS PRODUCT PER ACRE PER SEASON.

Application timing—This product can be applied to Roundup Ready wheat from emergence to harvest.

Treated wheat may not be used for food or feed. Do not feed or graze treated wheat. Do not process treated wheat for food or feed.

Read the "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for Roundup Ultra herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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09/29/99



MONSANTO COMPANY 600 13th Street, N.W. Suite 660 Washington, D.C. 20005

TEL: (202) 783-2460

Fax: (202) 783-2468

March 7, 2000

Hand Delivered

Office of Pesticide Programs
Document Processing Center (NOTIF)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall #2
1921 Jefferson Davis Highway
Arlington, VA 22202

Attention:

Mr. James A. Tompkins (7505C)

Team Leader (25)

Subject:

Roundup Pro Herbicide (EPA Reg. No. 524-475)

Submission of Final Printed Bilingual Label Booklet

Dear Mr. Tompkins:

Monsanto is submitting for your files, three (3) copies of the final printed label for Roundup Pro Herbicide (EPA Reg. No. 524-475, Print Plate No. 21136X2-26/53 dated 2000-1). This is the bilingual version of the label approved by the EPA on January 13, 1999. Monsanto certifies that this label is an accurate translation of the English. The modifications made to this label are as follows:

- The print plate number moved to a new position top center on cover of booklet
- A different patent number has been added at the end of the booklet.
- "Do not apply this product" Under the Agricultural Use Requirements has been moved to appear under "Directions for Use" per your letter dated January 13, 1999.
- Under Contents we changed "Reformulation is prohibited" to read "This is an end-use product.
 Monsanto does not intend and has not registered it for reformulation".

If you have any questions regarding this submission, please feel free to contact me through Dr. Russell P. Schneider or directly at 314-694-9036.

Sincerely,

Lle bee Debra Hinton

Registration Specialist

cc:

R. P. Schneider

A. M. Kirk

United States Environmental Protection Agency Washington, DC 20460			X	Amendment		OPP Identifier Number	
	Applicati	on for F	Pesticide - S	ection	Ι		
1. Company/Product Number	524-475		2. EPA Product #		nkins	3. Pro	posed Classification
4. Company/Product (Name)	<u>,</u>		PM# 2		pk ms	\dashv \boxtimes	None Restricted
Roundup Pro Her					<u> </u>		
5. Name and Address of Applicant (In Monsanto Company 500 13th Street, N.W., Washington, DC 20005	Suite 660		l :	ct is sim			FIFRA Section 3(c)(3) mposition and labeling
Check if this is a new	address		Product Nam	e	=-		
	· · · · · · · · · · · · · · · · · · ·	Sec	tion - II				
Amendment - Explain below. Resubmission in response to A Notification - Explain below.	gency letter dated		Agency Me To	inted labe letter dat o* Applica Explain be	ation.	Jan.	13, 1999
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		Sect	ion - III				
1. Material This Product Will Be Packs	aged In:				T		
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* Certification must Unit Page 5 Unit Page 5	No. per ckaging wgt, containar	if "Yes Packeg				Paper Other (S)	pecify)
3. Location of Net Contents Information Lebel Container	on 4. Size(s) Re	etsil Contair	ner	5. Lo	cation of Lab On Label On Label		ns panying product
6. Manner in Which Label is Affixed to	Product Lithon Paper	graph r glued ciled		ther			
		Sect	ion - IV				
1. Contact Point (Complete items dire	ectly below for identificati	an of indivi	dual to be contac	ed, if nec	essery, to pr	ocess this	appiication.)
Dr. Russell P. Sci	nneider		gricultural irector	Regul	ation		No (Include Area Code) 783-2460
I certify that the statements (he is acknowledge that any knowing both under applicable law.		d ell attach					6. Data Application Received (Stamped)
1. Signatura Lebra 1	Henton	3. Title Re	gistration	Specia	list .		1197/
.Typed Name Debra Hint	on	5. Date	March 7,	2000			7 (

Please read instructions on reverse before completing form.

'A Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

Form Approved, OMB No. 2070-0080

White - EPA File Copy (original)

Yellow - Applicant Copy

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour per sponse, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and viewing the collection of information. Send completes regarding the burden estimate or any other aspect of this collection of information, including aggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, ashington, DC 20460.

ISTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications r notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the flowing material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4);
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any date submitted;
- 5. Authorization letter where applicable;
- 7. Matrices where applicable.

abmission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the processed label. If prepared for mockup, it should be instructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.1 inch paper for submission.

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ECTION 1 - This section must be completed, as applicable, for all registration actions.

Company/Product Number - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.

EPA Product Manager - If known, fill in the name and PM number of the EPA Product Manager.

Proposed Classification - Specify the proposed classification of this product.

Product Name - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations. Name and Address of Applicant - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.

Expedited Review - FIFRA section 3 (c) 3 (8) provides for expedited review of applications for registration, or amendments to existing registration that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

ECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product mendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for registration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for distration.

Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "emend the Confidential Statement of Formula by..."; "reregistration submission"; "official label revision of use directions." Attach a separate page if additional space is needed,

ECTION III (Peckaging and Container Information) - This Section must be completed for all applications submitted in connection with new distration or applicable amendments.

- Type of Packaging Check the appropriete block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
- Type of Retail Container Indicate type of container in which product will be marketed.
- Location of Net Contents indicate the location of the net contents information for your product.
- Sizele) of Retail Container Specify the net contents of all retail containers for your product.
- Location of Use Directions sindicate the location of the use directions for your product.
- Manner in which label is affixed to product Indicated the method product label is attached to retail container.

ECTION IV (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, submission, "nee-foo," reregistration, etc.

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